NCDS

Data Note 3

Employment and Childbearing: derivation & cleaning of the dataset

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NATIONAL CHILD DEVELOPMENT STUDY

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Variables derived for the ESRC-funded Project:

Employment after childbearing:

Transitions among women born in 1958

Contents:

INTRODUCTION

This *NCDS Data Note* introduces a number of variables derived for the purposes of an ESRC-funded project, "Employment after childbearing: Transitions among women born in 1958", from data gathered during the fifth follow-up of the *National Child Development Study (NCDS5)*. The development of the derived variables was accompanied by efforts to resolve a number of data problems (including missing, out-of-range, and inconsistent data), and it is hoped that the information provided below may be of value to others analysing NCDS data.

A brief introduction to NCDS will be followed by details of the project and the variables.

NATIONAL CHILD DEVELOPMENT STUDY

The *National Child Development Study (NCDS)* is a continuing, multi-disciplinary longitudinal study which takes as its subjects all those living in Great Britain who were born between 3 and 9 March, 1958.

Following the initial birth survey in 1958 - the *Perinatal Mortality Survey (PMS)* - there have been, to date, five attempts to trace all members of the birth cohort in order to monitor their physical, educational and social development. These were carried out by the National Children's Bureau in 1965 (*NCDS1*), 1969 (*NCDS2*), 1974 (*NCDS3*), and 1981 (*NCDS4*); and by the Social Statistics Research Unit, City University in 1991 (*NCDS5*). In addition, in 1978, details of public examination entry and performance where obtained from schools and colleges.

For the *PMS* information was obtained from the *mother* and from *medical records* by the midwife. For *NCDS1-3*, information was obtained from: *parents* (by health visitors); *head teachers* and *class teachers* (who completed questionnaires); *medical examination* (carried out by the schools health service); and the *subjects* themselves (who completed tests of ability and, latterly, questionnaires).

NCDS4 differs in that information was obtained from the *subject* by survey research interviewer, and from the *1971 and 1981 Censuses* - from which variables describing area of residence were taken. Similarly, *NCDS5* also relied on survey research interviewers to collect information from *subjects*. Self-completion questionnaires were also used to gather data from NCDS *subjects* and from *husbands, wives, and cohabitees*. In addition, for a random sample of one in three subjects, information was collected for all *natural or adopted children* who were living with them. Data were gathered from the *children* themselves, and from their *mother, or mother-figure* (who might be the cohort member, or their spouse or partner), using a series of age-specific assessments of cognitive and behavioural development. These were supplemented by a *mother* interview, and by *interviewer observations* of mother-child interaction.

During *EXAMS* survey, information was obtained only from *schools and colleges* by postal survey.

In addition information has also been gathered during a number of *NCDS Special Sub-studies* for samples of cohort members selected for their particular characteristics. They include studies of children in care, adoptive children, gifted children, the children of one-parent families, handicapped school leavers, and those suffering from epilepsy, respiratory problems, and Crohn's disease.

Data available for research

The data from the NCDS follow-ups are held by the ESRC Data Archive at the University of Essex and on-line at Manchester Computing Centre. Access to the data is open to anyone interested, although intending users are asked to commit themselves to ensuring that confidentiality is observed, and to inform the *NCDS User Support Group* at the Centre for Longitudinal Studies about their proposed use of the data and any resulting publications, etc.

The Data Archive also hold data from a number of special sub-studies where additional data has been gathered for samples of cohort members selected for their special characteristics or circumstances.

User Group

This is open to all users of NCDS data. It provides opportunities for users to get together to explore developments, problems, and other issues of mutual interest. Ad hoc "Updates" on NCDS data and developments are circulated to members.

Membership is free on application to the NCDS User Support Group.

User Support Group

This provides advice and guidance on the use of NCDS data; produces documentation; collates and disseminates information on uses of the data, publications, and other developments; produces and distributes a newsletter and working papers; provides access to non-computerised NCDS data; collects additional information; and services the User Group.

The User Support Group can be contacted by post, 'phone, fax, or email as shown below:

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EMPLOYMENT AFTER CHILDBEARING

The remit of the ESRC-funded project, "Employment after childbearing: Transitions among women born in 1958", was to examine the relationship between motherhood and a woman's experiences of employment. The research was based, primarily, on data taken from the fifth NCDS follow-up (NCDS5) undertaken in 1991 when the members of the birth cohort were 33 years old.

The research was carried out be Professor Heather Joshi and Susan Macran of the Social Statistics Research Unit, City University and by Professor Shirley Dex of the University of Essex, now at Cambridge. The results are reported in the following publications:

Macran, S. Joshi,H. and Dex,S. (1996) 'Employment after childbearing: A survival analysis' forhtcoming in *Work Employment and Society*, Vol.10 No.2.

Joshi,H . Macran,S. and Dex,S. (1995) 'Employment Childbearing and Women's Subsequent Labour Force Participation: Evidence from the 1958 British Birth Cohort'. *Journal of Population Economics*, Vol.9 No.3

Dex,S. Joshi,H. and Macran,S. (1996) 'A widening gulf among Britain's mothers' *Oxford Review of Economic Policy*, (Special Issue on Inequality) Vol.12, No1, pp65-75.

Dex,S. Joshi,H. Macran,S. and McCulloch,A. (1996) 'Women's employment transitions around childbearing'. CEPR Discussion Paper No.1408, forthcoming in the Bulletin of the Oxford Institute of Economics & Statistics

The remainder of this **Data Note** will be concerned with:

  *   Sources of data on births and children used in the project.

  *   Identifying "mothers" in NCDS5 using the life histories, the pregnancy histories, and the household grid.

  *   Birth histories and Pregnancy histories

  *   Derived variables where "mothers" are the case.

  *   Derived variables where "months" are the case.

SOURCES OF DATA

Three sources of information on births and children are available in NCDS5:

   Your Life since 1974 - a self-completion questionnaire mailed to cohort members for completion before the main interview survey. In this instrument, cohort members were asked to provide a **birth history** (including dates of birth, birthweight and sex) for all of their natural children.

   Pregnancy History Section - part of the main **Cohort Member Interview**, which gathers details of all pregnancies and their outcomes.

Household Grid Section - another part of the main *Cohort Member Interview*, which identifies all members in the household, their age, and their relationship to the cohort member.

Copies of the NCDS5 *birth history*, *pregnancy history*, and *household grid* are available from the Centre for Longitudinal Studies.

In addition Peter Elias from the University of Warwick (Elias 1993) converted the data from *Your Life since 1974* into a month by month matrix. The resulting datset assigned March 1974 as month 1 (the month of the cohort member's 16th birthday) and counted each subsequent month until the month of the interview at NCDS5 (a maximum of 216 months). This enabled a researcher to identify whether individuals had experienced a particular 'event' (eg pregnancy) in any month since age 16, the length of time that this event lasted and to calculate the length of time between events (eg, length of time out of the labour market after a birth).

This project made use of the Elias dataset to analyse *Your life since 1974* data.

IDENTIFYING "MOTHERS"

The *birth history* information in *Your Life since 1974* only identifies as "mothers" those women who have had a birth, thereby excluding those "mothers" who have responsibility for children that are not their biological offspring, *eg:* women with adopted, fostered or step children. In addition, 11% of the 5,799 women who took part in NCDS5 gave incomplete information in the *Your Life...* questionnaire and therefore could not be identified as mothers from this source.

Each of the data sources (*Your Life...*, the *pregnancy history*, and the *household grid*) allows a slightly different definition of who is a "mother". In addition, because not all of the cohort members have completed all parts of all the questionnaires, they can also be used to supplement each other in order to build up a fuller and more consistent picture of who in the cohort has responsibility for children and who does not.

This section of the *Data Note* reports on initial attempts at sorting out discrepancies between these three sources of data on motherhood.

In *Your Life...* cohort members were instructed to include both live and still births. However, the "Employment after childbearing..." project was only interested in women who had a live birth. Cross checking with the cohort member's *pregnancy histories* revealed that for 29 women the first birth in their *birth history* was a stillbirth or a miscarriage. These 29 women were recoded, such that their next live birth was treated as their first birth. The rest of their births were re-numbered and their total number of births re-calculated. If they had no subsequent live births they were recorded as having no births (see Appendix 2, Part 1).

From the *pregnancy histories* we identified as "mothers" those women who gave a date of birth for a pregnancy and also indicated that the child resulting from that pregnancy was living with them in 1991 (at the time of the survey).

From the *household grid*, mothers were identified by calculating the age of the oldest child in the household (who did not have to be the women's own biological child). Initial work on the household grid revealed what appeared to be errors in interviewer's recording of the codes relating to household member's relationship to the cohort member. A common error was to code a cohort members own child as 12 ("Brother/Sister-In-Law") or 13 ("Own Parent") instead of 3

("Own Child"). Investigation revealed 26 women to have such errors in these variables, which were recoded to their correct values (see Appendix 2, Part 2).

Using the dataset prepared by Peter Elias (Elias, op cit.) from the original *Your Life...* data, 3,894 women were identified as having at least one live birth.

On the whole, most of these women (3,809) also indicated that they had a child living in their household in 1991 (*household grid*) and recorded a pregnancy where the resulting child was living with them in 1991 (*pregnancy history*).

However, 42 women appeared not to have a child living in their household in 1991, or a pregnancy where the resulting child was living with them in 1991. Investigation revealed that for 37 of these women their child was living elsewhere, and for 5 women the child had died.

Of the initial 3,894 women, 8 had missing *pregnancy history* and *household grid* information.

An additional four women recorded a pregnancy where the resulting child was living with them in 1991 (*pregnancy history*), but had missing *household grid* information.

Finally, 30 of the "mothers" identified from *Your Life...* indicated that they had a child living in the household (*household grid*) but recorded no pregnancy where the resulting child was living with them in 1991 (*pregnancy history*). Of these women, 13 had missing pregnancy data, 9 had not indicated whether the child resulting from the pregnancy was living with them, and 7 were "funnies" (see Appendix 2, Part 3).

From the *Your Life...* data, 1,277 women appeared to have had no live birth.

Most of these (1,202) also had no child living with them in 1991 (*household grid*) and reported no pregnancy where the resulting child was living with them (*pregnancy history*).

A further 20 women reported a child living in their household in 1991 (*household grid*) but no pregnancy where the resulting child was living with them (*pregnancy history*). Of these women, 28 indicated that they had adopted, fostered or step children living with them, and 2 had some missing data (see Appendix 2, Part 3 (2)).

In addition, one woman reported no children living in her household (*household grid*), but indicated that she had a pregnancy where the resulting child was living with her (*pregnancy history*).

Some 628 women had missing *birth history* information.

Of these women, 148 also had no children living in their household in 1991 (*household grid*) and reported no pregnancies where the resulting child was living with them (*ie:* there are no live births reported in the *pregnancy history*).

However, 465 indicated that they did have a child living in their household in 1991 (*household grid*), and reported a pregnancy where the resulting child was living with them (*pregnancy history*).

Finally, four women indicated that they had a child living in their household in 1991 (*household grid*), but indicated no pregnancy where the resulting child was living with them (*pregnancy history*). See Appendix 2, Part 3 (3).

BIRTH HISTORIES AND PREGNANCY HISTORIES

The information presented below arises from a comparison of birth information from two sources:

        Date of first birth derived from the **birth history** included in the **Your Life...**. See below for details of the derivation.

        Outcome of first pregnancy **(N502014)** and **Date of first birth** **(N502021=month and N502023=year)** taken from the **pregnancy history**.

In completing the **birth history** included in the **Your Life...** cohort members were told to include stillbirths as well as children who have died.

From the **Your Life...** dataset prepared by Peter Elias (Elias, 1993), 3,898 out of 5,799 women had a first birth by 1991, composed as follows:

        3,871   Live births
           27   Stillbirth

For 468 women their first birth was not their first pregnancy.

Some 31 women provided no information on the outcome of their first pregnancy, but for all but one, the date of the first birth in the **pregnancy history** matched the date of first birth in the **birth history**. These have been assumed to be live births.

A further 2 women reported that they were still in their first pregnancies and also gave invalid dates for N502021 and N502023, despite having a birth recorded in their **birth histories**.

From the **pregnancy history** data recorded in the **Cohort Member Interview**, 3,871 out of 5,799 women report a first birth as follows:

        3,838   Live births
           33   Stillbirth

According to the Elias **Your Life...** data, 1,273 women appear not to have a first birth and 628 had missing **birth history** information.

Investigation of **Outcome of first pregnancy** **(N502014)** for the 1,273 women who appear not to have had a birth shows:

      55   were pregnant
        1   first pregnancy ended in stillbirth
      81   first pregnancies ended in miscarriage
    107   first pregnancies ended in abortion
    985   had missing data (and are assumed to have never had a pregnancy)
     44   had a live birth recorded for their first pregnancy (all but one have missing
           birth history data)

Investigation of the 628 women with missing **birth history** information shows that 429 had a birth recorded, as follows:

420   live births (4 with a missing or invalid date of birth)
  5   stillbirths

The 199 with no reported birth are comprised as follows:

   5   were pregnant
 45   first pregnancy ended in miscarriage
 39   first pregnancy ended in abortion
110   had missing data (and are assumed to have never had a pregnancy)

Combining the ***birth history*** information on date of first birth with the outcome of first pregnancy information available from the ***pregnancy history*** showed:

1,228   had no birth recorded in the ***birth history*** and the outcome of their first pregnancy was not a live birth (see above)
  501   had no live births but had a birth recorded in the ***birth history***
          Of these:
       314   first pregnancy had ended in miscarriage
       154   first pregnancy had ended in abortion (it is assumed that their first birth is not their first pregnancy)
         2   were still in their first pregnancy
        31   had no information on the outcome of their first pregnancy

Summary

Comparing information from ***birth history*** and ***pregnancy history*** for first pregnancy:

Birth History

3,898   live or still birth
1,273   no birth recorded and outcome not a birth (***pregnancy history***=1stillbirth; 44 live birth; 985 never pregnant)
  429   missing data (***pregnancy history***=424 live births; 5 stillbirths)
  199   missing data (***pregnancy history***=110 never pregnant)
5,799

Pregnancy History

3,871   live or still birth
1,228   no birth recorded (966 never pregnant and ***birth history***=no birth)
  501   no birth (but ***birth history***=birth)
  199   not a birth (110 never pregnant and ***birth history***=missing)
5,799

SECTION 1: DERIVED VARIABLES WHERE "MOTHERS" ARE THE CASE

NB: The derived variables that follow this section are **for mothers only, and so** all data are
        for women only

        To identify women in NCDS, the variable 'sex at birth' is recommended:
        Variable = N622
        Value to identify women=2

        Maximum number of women in the sample = 5,799 (present in NCDS5)

        All dates are presented as months numbered from 1 to 216, where 1 represents January
        1974 and 216 represents December 1991.

Variables relating to length of employment gap, time of first birth, partnership status at first birth
etc, were derived from the dataset prepared by Peter Elias (Elias, 1993) from the original NCDS5
Your Life... data. Other variables were derived from the 1991 Cohort Member Interview.

Data

In total 5,799 women were interviewed in 1991. Of these, 628 did not give any good
employment or birth history information and so were excluded from this dataset, leaving a total
of 5,171 women, of whom 3,894 had at least one live birth.

Cohort members were told to include both live and still births in their **birth histories**.
Cross-checking with members **pregnancy histories**, obtained from the **Cohort Member
Interview**, revealed that for 29 women the first birth in their birth history was a stillbirth or a
misscarriage. These 29 women were recoded, such that their next live birth was treated as their
first birth. The rest of their births were re-numbered and their total number of births
re-calculated. If they had no subsequent live births, they were recoded as having no births (see
Appendix 1).

AGEYCH   Age of youngest child in the household in 1991.

Calculated from the *household grid* on p53 of the *Cohort Member Interview*

Variables used:

n502620 n502626 n502632 n502638 n502644 n502650 n502656 n502662 n502668 n502618
n502624 n502630 n502636 n502642 n502648 n502654 n502660
MAGE1SUP (derived)
PARTEVER (derived)

NOTE

The following case needs to be corrected for this variable:

```
do if serial eq '511123T'
compute ageych=99
end if
```

Frequency

```
AGEYCH    age of youngest child in household
```

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
2 yrs or under	1.00	1454	25.1	25.1	25.1
3-4 yrs	2.00	880	15.2	15.2	40.2
5-10 yrs	3.00	1733	29.9	29.9	70.1
11-15 yrs	4.00	312	5.4	5.4	75.5
16 yrs or over	5.00	16	.3	.3	75.8
age not known	97.00	3	.1	.1	75.8
child absent	98.00	51	.9	.9	76.7
no live bths	99.00	1164	20.1	20.1	96.8
missing	999.00	186	3.2	3.2	100.0
		-------	-------	-------	
	Total	5799	100.0	100.0	

```
Valid cases    5799    Missing cases    0
```

SPSS code

```
****************************************************************************
* Cleaning up the household grid.  Acknowledgements to Kate Smith
****************************************************************************
do if serial='045006S'
.  compute n502626=3
.  compute n502632=3
.  compute n502638=3
end if
do if serial='048019T'
.  compute n502620=3
end if
do if serial='088026R'
.  compute n502626=3
.  compute n502632=3
end if
do if serial='120135W'
.  compute n502626=3
end if
do if serial='147002B'
.  compute n502626=3
```

```
.    compute n502632=3
.    compute n502638=3
.    compute n502644=3
end if
do if serial='186122J'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
end if
do if serial='421062Y'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
.    compute n5026638=3
end if
do if serial='500395S'
.    compute n502620=1
.    compute n502626=3
end if
do if serial='510037V'
.    compute n502626=3
.    compute n502632=3
end if
do if serial='510085H'
.    compute n502620=2
.    compute n502626=3
end if
do if serial='511122R'
.    compute n502626=3
.    compute n502632=3
end if
do if serial='516004M'
.    compute n502620=1
.    compute n502626=3
end if
 do if serial='528044S'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
end if
do if serial='52901SQ'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
.    compute n502638=3
     compute n502644=3
end if
do if serial='550253C'
.    compute n502620=3
end if
do if serial='62011OS'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
end if
do if serial='62016OJ'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
.    compute n502638=3
.    compute n502644=3
end if
do if serial='720002W'
.    compute n502620=1
.    compute n502626=3
.    compute n502632=3
end if
do if serial='750109L'
```

```
.   compute n502620=1
.   compute n502626=3
end if
do if serial='840012V'
.   compute n502626=3
.   compute n502632=3
.   compute n502638=3
end if
do if serial='986013P'
.  compute n502620=3
end if
do if serial='986383Z'
.   compute n502626=3
end if
do if serial='986448B'
.   compute n502620=1
.   compute n502626=3
.   compute n502632=3
.   compute n502638=3
end if
do if serial='X80153P'
.   compute n502632=3
end if
do if serial='YOO316X'
.   compute n502626=3
end if
 do if serial='Y30013X'
.   compute n502626=3
.   compute n502632=3
 end if
 *


***************************************************************************
*
 * calculate age of youngest child in the household from household grid in
CMI

***************************************************************************
*

 compute ageychc=999
 do repeat x=n502620 n502626 n502632 n502638 n502644 n502650 n502656 n502662
            n502668/
          y=n502618 n502624 n502630 n502636 n502642 n502648 n502654 n502660
            n502666
.    if (((x eq 3) or (x eq 4) or (x eq 5) or (x eq 6)) and (y lt ageychc))
         ageychc=y
 end repeat
 *
 if (ageych eq 999) and neverp eq 1) ageych=99
 *
 compute ageychc=ageych
 recode ageych (lo thru 2=1) (3,4=2) (5 thru 10=3) (11 thru 15=4)
        (16 thru 998=5)
 *missing values ageych (999)
 if (ageych eq 999 and mageisup eq 9) ageych=99
 if (ageych eq 999 and mageisup eq 6) ageych=98
 if (ageych eq 999 and magelsup lt 6) ageych=97
 if (ageychc eq 999 and magelsup eq 9) ageychc=99
 if (ageychc eq 999 and mageisup eq 6) ageychc=98
 if (ageychc eq 999 and mageisup lt 6) ageychc=97
 var labs ageych 'age of youngest child in household'
 val labs ageych 1 12 yrs or under' 2 13-4 yrs' 3 '5-10 yrs' 4 '11-15 yrs'
          5 '16 yrs or over' 97 'age not known' 98 'child absent'
          99 'no live bths' 999 'missing'
```

BTHSGAP   Number of births in gap

Derived from the *Your Life...* Elias dataset. Simply a count of the number of births, subsequent to her first, born to a woman before she reports first entry into paid employment (see table below and see code in: Appendix 1 pp5-6).

Frequency

```
BTHSGAP
                                              Valid     Cum
Value Label              Value  Frequency  Percent  Percent  Percent

no return                  .00       1184     22.9     40.3     40.3
no bths in gap            1.00       1370     26.5     46.6     86.8
1 bth in gap              2.00        179      3.5      6.1     92.9
2+ bths in gap            3.00        208      4.0      7.1    100.0
1 bth only                8.00        953     18.4  Missing
no births                 9.00       1277     24.7  Missing
                                   -------  -------  -------
                          Total      5171    100.0    100.0

Valid cases    2941    Missing cases    2230
```

SPSS code (see Appendix 1, pp5-6)

EXPART   No partner in 1991 but partner in the past

Derived from cohort member interview.

Variables used:

MAR91 (derived)
PARTEVER (derived)

Frequency

```
EXPART              Freq      Percent
                 0      5314      91.2
                 1       485       8.4
                99        25       0.4
             Total      5799     100.0
```

SPSS code:

```
compute expart=0
if (mar91 eq 4 and partever eq 3) expert=1
if mis(mar91) expart=99
missing values expart (99)
```

FPMTHPRE Employment status six months prior to first birth

Derived from *Your Life since 1974* (Elias dataset).

Variables used:
TOTBTH (derived)
NBIRTHI (derived)
whether in full-time employment variables from Elias ACCNCDS dataset
whether in part-time employment variables from Elias ACCNCDS dataset

Frequency:

```
FPMTHPRE Whether FT/PT job 6 mths before first birth
                                            Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

No job                      .00       907     15.6     23.3     23.3
FT                         1.00      2733     47.1     70.2     93.5
PT                         2.00       254      4.4      6.5    100.0
                             .        628     10.8   Missing
                          99.00      1277     22.0   Missing
                                   -------  -------  -------
                          Total      5799    100.0    100.0
Valid cases     3894    Missing cases    1905
```

SPSS code
```
*****************************************************************************
 * define vectors

*****************************************************************************
 vector ftemp=ft1 to ft216
 vector ptemp=pt1 to pt216
 vector allemp=emp1 to emp216

*****************************************************************************
 * declare missing values

*****************************************************************************
 loop #i=l to 216
 .  if (allemp(#i) eq 9 and ftemp(#i) eq 0) ftemp(#i)=9
 .  if (allemp(#i) eq 9 and ptemp(#i) eq 0) ptemp(#i)=9
 .  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ftemp(#i)=9
 .  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ptemp(#i)=9
 end loop
 missing values emp1 to emp216 (8,9)

*****************************************************************************
 * compute whether employment information is missing

*****************************************************************************
 compute empmiss=sum(emp1 to emp216)
 * drop women with missing employment information (n=608)
 select if ~missing(empmiss)

*****************************************************************************
 * compute employment status six months prior to the first birth

*****************************************************************************
 * compute sixmprev=0 compute fpmthpre=0 it (totbth eq 0) sixmprev=99
 if (totbth eq 0) fpmthpre=99
 missing values sixmprev (99)/fpmthpre (99)
 do if totbth ge 1
 .  compute sixmth=(nbirthi-6)
 .  loop #i=l to intview
```

```
.      if (sixmth eq #i and allemp(#i) eq 1) sixmprev=1
.      if (sixmth eq #i and ftemp(#i) eq 1 and ptemp(#i) eq 1) fpmthpre=l
.      if (sixmth eq #i and ftemp(#i) eq 1 and ptemp(#i) eq 0) fpmthpre=l
.      if (sixmth eq #i and ftemp(#i) eq 0 and ptemp(#i) eq 1) fpmthpre=2
.  end loop
end if
var labels fpmthpre 'Whether FT/PT job 6 mths before first birth'
val labels fpmthpre 1 'FT' 2 'PT' 0 'No job' 9 'No birth'
var labels sixmprev 'Whether in a job 6 mths before first birth'
val labels sixinprev 0 'Not in emp' 1 'In emp'
```

HIQUAL   Mother's highest educational qualification

A six category variable ("none"; "some"; "0 level"; "A level"; "higher"; "degree"), derived from the 1991 *Cohort Member Interview* (using code devised by Professor John Bynner). Variables N501441 to N501469. Cohort members were asked to give all the qualifications they have ever obtaincd. Some 97 mothers could not be classified because they had missing information

Source variables:
n501441 to n501569
n501513 to n501541

Frequency

```
HIQUAL     highest ed qual
                                                  Valid      Cum
Value Label              Value  Frequency Percent Percent  Percent

none                      1.00      645     12.5    12.7     12.7
some quals                2.00      960     18.6    18.9     31.6
O level or equiv          3.00     1755     33.9    34.6     66.2
A level or equiv          4.00      394      7.6     7.8     74.0
other higher              5.00      728     14.1    14.3     88.3
degree                    6.00      592     11.4    11.7    100.0
                           .00       97      1.9   Missing
                                  -------  ------- -------
                          Total    5171    100.0   100.0

Valid cases     5074    Missing cases      97
```

SPSS code
```
********************************************************************************
* John Bynner's code for highest ed qualification
********************************************************************************
* cleaning: if 'no quals ever' but not 'no quals before 1981',
* use 'no quals before 1981'
*
do repeat x=n501441 to n501469/* quals ever
        /y=n501513 to n501541/*quals before 1981
  if (x=37 and range(y,1,36)) x=y
  if ((x=37 and missing(y)) or y=0) y=37
end repeat
*
* compute qualification variable
*
compute hiqual=0
do repeat x=n501441 to n501469
  if any(x,37) hiqual=1
  if any(x,10,25,1) hiqual=2
  if any(x,20,19,18,17,13,12,11,7,6,4,3,2) hiqual=3
  if any(x,23,21,15,14,9,8,5) hiqual=4
  if any(x,30,29,28,27,26,24,22,16) hiqual=5
  if any(x,31,32,33) hiqual=6
end repeat
var labels hiqual 'highest ed qual'
val labels hiqual 1 'none' 2 'some quals' 3 'O level or equiv'
    4 'A level or equiv' 5 'other higher' 6 'degree'
missing values hiqual (0)
```

INTEND   Intention to have any/more children

Derived from the cohort member interview.

Source variables:

TOTBTH (derived)
EMPMISS (derived)
n502550 n502551 n502552 n502553

Frequency:

```
INTEND    Intends to have any/more children

                                              Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

yes                          1.00       936     16.1     18.5     18.5
no                           2.00      1869     32.2     36.9     55.4
don't know                   3.00       886     15.3     17.5     72.9
can't                        4.00      1375     23.7     27.1    100.0
                               .        628     10.8  Missing
                             .00        105      1.8  Missing
                                     -------  -------  -------
                            Total      5799    100.0    100.0

Valid cases    5066    Missing cases      733
```

SPSS code

```
select if -missing(empmiss).
recode totbth (2 thru hi=2).
compute intend=0.
recode n502553 (8=18).
*if (n502553 eq 1) intend=1.
if (n502553 eq 2) intend=2.
if (n502553 eq 18) intend=3.
if ((n502550 eq 1) or (n502550 eq 2) or (n502550 eq 3)
or (n502551 eq 1) or (n502551 eq 2) or (n502551 eq 3)
or (n502552 eq 1) or (n502552 eq 2) or (n502552 eq 3))
intend=4.
if (n502553 eq 1) intend=1.
freq intend.
```

INTERVAL   Employment gap

Derived from the *Your Life...* dataset prepared by Peter Elias. A woman's employment gap was calculated by counting the number of months between her first birth and her first entry to employment after that birth.

Counting started at the month of her first birth and continued until the last month before she entered employment. If a woman was in employment in the same month as her first birth the count was zero.   For women who had a first birth but had not subsequently entered employment by the time of interview (censored cases), their employment gap was counted from their first birth to the month before they were interviewed.

The survival analysis procedure also requires the calculation of a flag variable (RETURN), to indicate whether a case has made the transition being investigated or not (eg. whether a woman had a made an entry to a job after her first birth or not (a censored case)). This flag has a value of 1=entry, or 0=no entry (Appendix 1, p 5).

Source variables:
TOTBTH (derived)
RETURN (derived)
MTHRET (derived)
NBIRTH1 (derived)

SPSS code (See Appendix 1, p5)

LEFT   **Whether left employment before interview having returned to work post childbirth**

Source variables:
INTVIEW (derived)
STAY (derived)
TOTBTH (derived)
RETURN (derived)

Frequency

```
LEFT
                                                  Valid      Cum
Value Label               Value   Frequency Percent  Percent  Percent

                           .00      1521      29.4    48.5     48.5
                          1.00      1612      31.2    51.5    100.0
no return                 8.00       761      14.7   Missing
no bths                   9.00      1277      24.7   Missing
                                  -------   -------  -------
                          Total     5171     100.0   100.0

Valid cases    3133    Missing cases    2038
```

SPSS code: (see Appendix 1, p6)

LEFTED   Month of first leaving full-time education

Derived from *Your Life since 1974*.

Variables used:

job history variables derived by Pierella Paci (job 1 to job216)
INTVIEW (derived)

Frequency

	Mean	SD	Min	Max	N
LEFTED	191.25	20.94	7	130	5583

SPSS code

```
 *
 ***************************************************************************
 * define vectors
 ***************************************************************************
 vector jbhst=job1 to job216
 *
 ***************************************************************************
 * declare missing values
 ***************************************************************************
 * missing values jobl to job216 (-1)
 *
 ***************************************************************************
 compute whether employment information is missing
 ***************************************************************************
 count empmiss=jobl to job216 (mis)
 select if empmiss lt intview
 *
 ***************************************************************************
 * compute proportion of time in a job leaving school to interview
 ***************************************************************************
 *compute date first leaving FT education
 *
 missing values jobl to job216 ()
 compute lefted=0
 loop #i=7 to intview if (lefted=O)
 . if (jbhst(#i) ne 2) lefted=#i
 end loop
 *
 *  NB: Case number 050032X has had her first 8 job months recoded.
 *  She originally had them as missing and her next 10 month were in
 *  full-time ed.  So I have recodede job1 to job8 as ft ed too.
 *
 execute
 *
 if (lefted eq 0) lefted=7
 *
```

LONEMOTH   Ever been a lone mother

Uses marital status at firdt birth and 1991 along with question n502377 which asks whether the, cohort member has ever had a spell of lone parenthood, to drive whther a cohort member has ever had a period of lone parenthood.

Variables used:

n502377
MARITALI (derived) MARSTAT (derived) AGEYCH (derived) MAGE1SUPP (derived)

Freq:

```
LONEMOTH  ever been lone mother


                                                  Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

first bth & 1991             1.00       108       1.9      1.9      1.9
first bth not 1991           2.00       147       2.5      2.5      4.4
1991 not first bth           3.00       353       6.1      6.1     10.5
ever lone moth               4.00       465       8.0      8.0     18.5
never lone moth              5.00      3295      56.8     56.8     75.3
lone moth dk                 9.00        81       1.4      1.4     76.7
no live bths                99.00      1350      23.3     23.3    100.0
                                    -------   -------  -------
                            Total      5799     100.0    100.0

Valid cases   5700     Missing cases       0
```

SPSS code
```
 *
 ****************************************************************************
 compute if women has ever been a lone mother
 ****************************************************************************
 compute lonemoth=0.
 if (n502377 eq 1) lonemoth=4.
 if (sysmis(n502377) or n502377 eq 9) lonemoth=9.
 if ((maritall eq 0) and (marstat eq 3 and any(ageych,1,2,3,4,5,97)))
 lonemoth=1.
 if (maritall eq 0 and lonemoth ne 1) lonemoth=2.
 if (marstat eq 3 and any(ageych,1,2,3,4,5,97) and lonemoth ne 1 and
     lonemoth ne 2) lonemoth=3.
 if (n502377 eq 2) lonemoth=5.
 if (mage1sup eq 9) lonemoth=99.
 var labels lonemoth 'ever been lone mother'.
 val labels lonemoth 1 'first bth & 1991' 2 'first bth not 1991'
           3 '1991 not first bth' 4 'ever lone moth' 5 'never lone moth'
           9 'lone moth dk' 99 no live bths'.
 recode lonemoth (0=9).
```

MAGEBTH1 Mother's age at First birth (live births)

Calculated from *Your Life since 1974* supplemented by information from the cohort members *pregnancy history* (page 44 of the *Cohort Member Interview*).
Applies for women who have valid Yor Life information.

Variables used:

NBIRTHI (derived).
TOTBTH (derived)

Frequency

```
MAGEBTH1  mothers age at first birth


                                                    Valid       Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

lt 20 yrs                    1.00        550      9.9      9.9      9.9
20-24 yrs                    2.00       1443     25.8     25.8     35.7
25-29 yrs                    3.00       1355     24.3     24.3     60.0
30+ yrs                      4.00        501      9.0      9.0     68.9
no birth                    99.00       1209     21.7     21.7     90.6
missing                    999.00        525      9.4      9.4    100.0
                                    -------  -------  -------
                            Total       5583    100.0    100.0

Valid cases     5583     Missing cases          0
```


SPSS code

NOTE

The following cases need to he corrected for this variable:

```
do if serial eq '215001B'
compute magebth1=3
end if
do if serial eq'511123T'
compute magebthl=9
land if
do if serial eq'513085Y'
compute magebthl=3
end if
do if serial eq '517152J'
compute magebth1=3
end if
do if serial eq'620113Y'
compute magebthl=1
end if
do if serial eq'960003Q'
compute magebth1=3
end if
do if serial eq'X32002U'
compute magebthl=3
end if

 *
```

```
*****************************************************************************
 * define vectors

*****************************************************************************
 vector jbhst=job1 to job216
 *


*****************************************************************************
 * declare missing values

*****************************************************************************
 missing values job1 to job216 (-1)
 *


*****************************************************************************
 * compute whether employment information is missing

*****************************************************************************
 count empmiss=jobl to job216 (mis)
 *
 select if empmiss lt intview
 *
*****************************************************************************
 * compute age of mother at first birth

*****************************************************************************
 compute magebthl=0
 if (totbth eq 0) magebth1=99
 if mis(totbth) magebthl=999
 do if totbth ge 1
 .  if (nbirthl ge 1 and nbirthl le 50) magebthl=1
 .  if (nbirthl gt 50 and nbirth1 le 110) magebth1=2
 .  if (nbirthl ge 111 and nbirth1 le 170) magebthl=3
 .  if (nbirth1 ge 171 and nbirth1 le intview) magebthl=4
 end if
 *missing values magebthl (99,999)
 var labels magebthl 'mothers age at first birth'
 val labels magebthl 1 'lt 20 yrs' 2 '20-24 yrs' 3 '25-29 yrs' 4 '30+ yrs'
          99 'no birth' 999 missing,
 *
```

MAGE1SUP   Mother's age at first birth (live births)

Uses mother's age at first birth calculated from *Your Life...* (Peter Elias data) supplemented by extra information from the *household grid* and from the cohort members *pregnancy history* (page 244 of the *Cohort Member Interview*).

Variables used:

MAGEBTHI (derived)
n502218 n502226 n502234 n502242 n505318 n505326 n505334 n505342 n502023 n502034 n502045 n502056 n505123 n505134 n505145 n505156 n502021 n502032 n502043 n502054 n505121 n505132 n505143 n505154

Frequency

```
MAGE1SUP Mothers age at first birth (supp)

                                                Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

<20yrs                       1.00       654     11.3     11.3     11.3
20-24yrs                     2.00      1661     28.6     28.6     39.9
25-29yrs                     3.00      1495     25.8     25.8     65.7
30+yrs                       4.00       546      9.4      9.4     75.1
date unknown                 5.00        42       .7       .7     75.8
chld absent                  6.00        51       .9       .9     76.7
no live bths                 9.00      1164     20.1     20.1     96.8
missing                     99.00       186      3.2      3.2    100.0
                                    -------  -------  -------
                            Total      5799    100.0    100.0

Valid cases    5799   Missing cases            0
```

NOTE
The following cases need to be corrected for this variable
```
 do if serial eq'21500IB'
 compute mage1sup=3
 end if
 do if serial eq'511123T'
 compute magelsup=9
 end if
 do if serial eq'513085Y'
 compute magelsup=3
 end if
 do if serial eq '517152J'.
 compute magelsup=3
 end if
 do if serial eq '620113Y'.
 compute magelsup=l
 end if
 do if serial eq'960003Q'
 compute magelsup=3
 end if
 do if serial eq'X32002U'
 compute magelsup=3
 end if
```

```
MAGE1SUP No SPSS code in draft
```

MARITAL1   Partnership status at time of first birth

Derived from the *partnership histories* in the Elias *Your Life...* dataset.   A three-fold classification ("living without a partner"; "Married and living with partner"; and "cohabiting with partner").   Cohort members were classified according to whichever partnership status they indicated in the same month as their first birth (see table below and code in:Appendix 1, p7).

Source variables:
TOTBTH (derived)
NBIRTH1 (derived)
MARRIED (derived)
LIVING (derived)

Frequency

```
MARITAL1  partnership status at first bth
                                              Valid    Cum
Value Label               Value  Frequency  Percent  Percent Percent

living alone                .00       326      6.3      8.4     8.4
married                    1.00      3254     62.9     83.6    91.9
cohabiling                 2.00       314      6.1      8.1   100.0
no bths                    9.00      1277     24.7   Missing
                                   -------  -------  -------
                          Total      5171    100.0    100.0

Valid cases    3894    Missing cases    1277
```

SPSS code(see Appendix 1, p7)

MTHRET   Month first entered employment after first birth

Derived from *Your Life since 1974* (Elias dataset)

Variables used:

whether in any employment variables from Elias ACCNCDS dataset (emp1-emp216)
TOTBTH (derived)
INTVIEW (derived)
NBIRTHI (derived)

Frequency

	Mean	SD	Min	Max	N
MTHRET	108.69	68.14	0	214	3894

Missing values: 999

Also: mthreta if (methret=0) methreta=intview

SPSS code

```
 *

***************************************************************************
 * define vectors

***************************************************************************
 vector allemp=emp1 to emp216
 missing values ed1 to mar216 (8,9)
 * compute whether employment information is missing

***************************************************************************
 compute empmiss=sum(emp1 to emp216)
 * drop women missing employment information
 select if ~missing(empmiss)
 *
***************************************************************************
 * compute interval between first birth and first return to employment

***************************************************************************
 compute methret=0 /*month returned to employment
 if (totbth eq 0) mrthret=999
 missing values methret (999)
 val labels methret 999 'no births'
 do if (~missing(methret)
 loop #1=nbirth1 to intview if (methret=0)
 .  if (allemp(#1) eq 1) methret=#1
 end loop
 *
```

PARTEVER Partner 91/ever had a partner

Partnership status. Derived from *Your Life since 1974* and *Cohort Member Interview*

Variables used:

n5065 13
n506514
FPARTCON (derived) MAR91 (derived)

Frequency

```
PARTEVER  Partner 91/ever had partner


                                            Valid     Cum
Value Label               Value  Frequency  Percent  Percent  Percent

partner first              1.00     3673     63.3     63.6     63.6
partner not first          2.00     1036     17.9     17.9     81.5
no part but past           3.00      694     12.0     12.0     93.5
no part no past            4.00      373      6.4      6.5    100.0
                                      23       .4   Missing
                                   ------  -------  -------
                          Total     5799    100.0    100.0

Valid cases    5776    Missing cases      23
```

SPSS code

```
 *   Cleaning whether still with partner variables from Your Life'.  Thanks
to
    Pam and Kath Kiernan
 *
 do if serial eq '385048J'.
 . compute fpartcon=2.
 end if.
 *
 do if serial eq '481007D'.
 . compute fpartcon=2.
 end if.
 *
 do if serial eq '528010Y'.
 . compute fpartcon=2.
 end if.
 *
 do if serial eq '986224C'.
 . compute fpartcon=2.
 end if.
 *
 do if serial eq 'X87073D'.
 . compute fpartcon=2.
 end if.
 *
 do if serial eq '093126Z'.
 . compute part3con=2.
 1 end if.
 *
 do if serial eq '740031S'.
 . compute part3con=2.
 end if.
 *
```

```
 do if serial eq '950043W'.
 . compute part2con=9.

 . missing values part2con (9).
 end if.
 *
 ***986004N is messy. According to her relationship section this woman was
     cohabiting and never m, but her household grid says that she lived
alone,
     she didn't complete Your Life. So really we don't know what she's doing.
     Set her to missing on fpartcon (KK had used her realtionship to set
      fpartcon to 1. Also recode marstpar to missing (kate has it as single
and
     never married. Although that's what she probably is we can't be sure.

 do if serial eq '986004N'.
 . compute fpartcon=9.
 . missing values fpartcon (9).
 end if.
*
 if (fpartcon eq 1) partever=1.
 if ((mar91 eq 1 or mar91 eq 2) and Epartcon ne 1) partever=2.
 if (mar91 eq 3 or mar91 eq 4) partever=3.
 if (n506513 eq 2 and n506514 eq 2) partever=4.
 var lables partever 'Partner 91/ever had partner'.
 val labels partever 1 'partner first' 2 'partner not first'
     3 'no part but past' 4 'no part no past'.
```

PARTSTAT   Partner's economic status in 1991

Indicates whether a cohort memeber's partner is unemployed and/or receiving income support

Variables used:

PEMPSTAT aka n501048
DSPMTB partner receiving income support or not (derived by Clare Ward/Hugh Davies)

Frequency

```
PARTSTAT  Partners economic status in 1991


                                          Valid      Cum
Value Labels                 Value  Frequency  Percent  Percent  Percent

Other/no part                  .00     5522     95.2     95.2     95.2
Unemployed/not on in          1.00      184      3.2      3.2     98.4
On income support             2.00       93      1.6      1.6    100.0
                                     -------  -------  -------
                            Total       5799    100.0    100.0

Valid cases    5799     Missing cases        0
```


SPSS code

```
*
****************************************************************************
* compute partners economic status
****************************************************************************
compute parstat=0
if (pempstat eq 5 and dspmtb ne 1) partstat=l
if (dspmtb eq 1) partstat=2
*if (pempstat ge 1 and pempstat le 4) partstat=3
*if (pempstat ge 6 andpempstat le 10) partstat=4
*if (sysmis(pempstat)) partstat=5
*missing values partstat (9)
var labels partstat Partners economic status in 1991
val labels partstat 1 'Unemployed/not on income support'
     2 'On income support' 0 'Other/no part'
```

PREGJOB   In a job during first pregancy

Employment during pregnancy first live birth as identified by *Your Life since 1974*.

Variables used:

NBIRTHI
TOTBTH
whether in any employment: variables from Elias ACCNCDS dataset (emp I to emp216)

Frequency

```
PREGJOB    Whether in emp during pregnancy

                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

No                         .00       716    12.3    18.4     18.4
Yes                       1.00      3178    54.8    81.6    100.0
                           .         628    10.8   Missing
No birth                  9.00      1277    22.0   Missing
                                   -------  -------  -------
                         Total      5799   100.0   100.0

Valid cases     3894    Missing cases    1905
```


SPSS code
```
 *
 ***************************************************************************
 * define veectors
 ***************************************************************************
 vector allemp=emp1 to emp216
 missing values ed1 to emp216 (8,9)
 *

 ***************************************************************************
 * compute whether employment information is missing

 ***************************************************************************
 compute empmiss=sum(empl to emp216)
 * drop women with missing employment information (n=608)
 select if ~ missing(empmiss)
 *

 ***************************************************************************
 * compute whether woman was in a job during her first pregnancy

 ***************************************************************************
 * compute pregst=99
 compute pregst=nbirthl-8
 if(pregst lt 1) pregst=l
 if (totbth eq 0) pregjob=9
 do if (totbth ge 1)
 .   compute pregjob=0
 .   loop #i=pregst to nbirth1 if (pregjob=O)
 .     if (allemp(#i) eq 1) pregjob=1
 .   end loop
 end if
```

```
missing values pregst (99) /pregjob (9)
var labels pregjob 'Whether in emp during pregnancy'
val labels pregjob 1 'Yes' 0 'No' 9 'No birth'
```

PROPRET   Proportion of time in employment since first return

Derived from the Elias *Your Life...* dataset. Calculated by totalling the number of months a women indicated that she spent in employment (full or part time), since making her first entry to employment after her first birth, which was divided by the number of months between a woman's first return and the month of her 1991 interview (see table below and Appendix 1, p7).

Source variables:
TOTBTH (derived)
ALLEMP (derived)

Frequency

```
PROPRET   Prop time in emp since first return
                                              Valid      Cum
Value Label               Value  Frequency  Percent  Percent  Percent

<10%                       1.00      1818     35.2     46.7     46.7
10-19%                     2.00       152      2.9      3.9     50.6
20-29%                     3.00       168      3.2      4.3     54.9
30-39%                     4.00       169      3.3      4.3     59.2
40-49%                     5.00       174      3.4      4.5     63.7
50-59%                     6.00       186      3.6      4.8     68.5
60-69%                     7.00       145      2.8      3.7     72.2
70-79%                     8.00       152      2.9      3.9     76.1
80-89%                     9.00       183      3.5      4.7     80.8
90-100%                   10.00       747     14.4     19.2    100.0
                         999.00      1277     24.7  Missing
                                   -------  -------  -------
                          Total      5171    100.0    100.0

Valid cases    3894    Missing cases    1277
```

SPSS code (see Appendix1, p7)

PTIMEMP   Proportion of time in employment between first leaving full-time education and interview

Derived from Your Life at 33.

Variables used:

LEFTED (derived)
TIMEMP (derived)
job history variables derived by Pierella Paci job1 to job216)
INTVIEW
MIS1

Frequency

```
PTIMEMP    prop time in emp lefted -> intview
                                                  Valid      Cum
Value Label               Value  Frequency  Percent  Percent  Percent

10%                        1.00      108      1.9      1.9      1.9
10-19%                     2.00      119      2.1      2.1      4.1
20-29%                     3.00      157      2.8      2.8      6.9
30-39%                     4.00      260      4.7      4.7     11.5
40-49%                     5.00      292      5.2      5.2     16.8
50-59%.                    6.00      424      7.6      7.6     24.4
60-69%                     7.00      507      9.1      9.1     33.4
70-79% .                   8.00      569     10.2     10.2     43.6
80-89%                     9.00      550      9.9      9.9     53.5
90-100%                   10.00     2594     46.5     46.5     99.9
                         999.00        3       .1       .1    100.0
                                   -------  -------  -------
                         Total      5583    100.0    100.0

Valid cases     5583    Missing cases       0
```

SPSS code
```
 *
 ****************************************************************************
 vector jbhst=jobl to job216
 ****************************************************************************
 * declare missing values
 ****************************************************************************
 missing values job1 to job216 (-1)
 *
 ****************************************************************************
 * compute whether employment information is missing
 ****************************************************************************
 * count empmiss=jobl to job216 (mis)
 *
 select if empmiss lt intview
 *
 ****************************************************************************
 * compute proportion of time in a job leaving school to interview
 ****************************************************************************
 * compute date first leaving FT education

 missing values jobl to job216 ()
 compute lefted=0
 loop #i=7 to intview if (lefted=O)
```

```
. if (jbhst(#i) ne 2) lefted=#i
end loop
*
* NB: Case number 050032X has had her first 8 job months recoded.
* She originally had them as missing and her next 10 month were in
* full-time ed.  So I have recoded jobl to job8 as ft ed too.
*
execute
*
if (lefted eq 0) lefted=7
*
* read data again
*
vector jbhst=job1 to job216
missing values job1 to job216 (-1)
count empmiss=job1 to job216 (mis)
select if empmiss lt intview
*
* compute number months in employment between leaving school and interview
*
*
compute timemp=0
loop #i=lefted to intview
. if (jbhst(#i) eq 1 or jbhst(#i) eq 3 or jbhst(#i) eq 4) timemp=timemp+l
end loop
*
* compute number month with missing job information between leaving
* education and interview compute misl=O
compute mis1=0
loop #i=lefted to intview
.  if (mis (jobhist(#1))) mis1=mis1+1
end loop
compute pmis1=mis1/(intview-lefted)*100 /* proportion months with missing
                                          job info betweren left ed
                                          intview
*  recode pmisl (lo thru 9.99=1) (10.0 thru 19.99=2) (20.00 thru 29.99=3)
             (30.00 thru 39.99=4) (40.00 thru 49.99=5) (50.00 thru 59.99=6)
             (60.00 thru 69.99=7) (70.00 thru 79.00=8) (80.00 thru 89.99=9)
             (90.00 thru hi=10)
var labels pmis1 'Prop mth miss job ino lefted ->intview'
val labels pmis1 1 '<10%' 2 '1-19%' 3 '20-29%' 4 '30-39% 5 '40-49%'
                  6 '50-59%' 7 '60-69%' 8 '70-79% 9 '80-89%' 9 '90-100%'
*
recode pmis1 (1,2=1) (3 thru 10=2)
val labels pmis1 1 'lt 20' 2 'ge 20'

compute dl=(intview-(lefted-l))-mis1
*
if (dl eq 0) ptimemp=999
do if d1 ne 0
. compute ptimemp=(timemp/dl)*100
end if
do if (pmis1 eq 1)
. compute ptimemp2=ptimemp
end if
*
var labels ptimemp  'prop time in emp lefted-> intview'
recode ptimemp (lo thru 9.99=1) (10.0 thru 19.99=2) (20.00 thru 29.99=3)
               (30.00  thru  39.99=4)  (40.00  thru  49.99=5)  (50.00  thru
59.99=6)
               (60.00  thru  69.99=7)  (70.00  thru  79.99=8)  (80.00  thru
89.99=9)
               (90.00 thru 100=10)
val labels ptimemp 1 '<10%' 2 '10-19%' 3 '20-29%' 4 '30-39%' 5 '40-49%'
                   6 '50-59% 7 '60-69%' 8 '70-79%' 9 '80-89%' 10 '90-100%'
*
```

PTIMEMP2   Proportion of time in employment between first leaving full-time education and interview where less than 20% of information is missing.

Where less than 20% of the month in the denominator (*ie:* between leaving education and interview) have missing job information.

Derived from *Your Life since 1974*

Variables used:

PTIMEMP (derived)
PMIS1 (derived)

Frequency

```
PTIMEMP2  prop time in emp lefted-> intview only i
```

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
<10%	1.00	84	1.5	1.8	1.8
10-19%	2.00	108	1.9	2.3	4.1
20-29%	3.00	142	2.5	3.1	7.2
30-39%	4.00	239	4.3	5.1	12.3
40-49%	5.00	271	4.9	5.8	18.2
50-59%	6.00	405	7.3	8.7	26.9
60-69%	7.00	464	8.3	10.0	36.9
70-79%	8.00	521	9.3	11.2	48.1
80-89%	9.00	486	8.7	10.5	58.5
90-100%	10.00	1926	34.5	41.5	100.0
	.	937	16.8	Missing	
	Total	5583	100.0	100.0	

```
Valid cases     4646     Missing cases     937
```

SPSS code

```
 *

*****************************************************************************
 vector jbhst=job1 to job216

*****************************************************************************
 * declare missing values

*****************************************************************************
 missing values job1 to job216 (-1)
 *

*****************************************************************************
 * compute whether employment information is missing

*****************************************************************************
 count empmiss=jobl to job216 (mis)
 *
 select if empmiss lt intview
 *

*****************************************************************************
 do if (pmis1 eq 1)
 . compute ptimemp2=ptimemp
 end if
 *
```

```
 var labels ptimemp2 'prop time in emp lefted-> intview only if <20% miss'
 recode ptimemp2 (lo thru 9.99=1) (10.0 thru 19.99=2) (20.00 thru 29.99=3)
        (30.00 thru 39.99=4) (40.00 thru 49.99=5) (50.00 thru 59.99=6)
        (60.00 thru 69.99=7) (70.00 thru 79.99=8) (80.00 thru 89.99=9)
        (90.00 thru 100=10)
 val labels ptimemp2 1 '<10%' 2 '10-19%' 3 '20-29%' 4 '30-39%' 5 '40-49%'
          6 '50-59%' 7 '60-69%' 8 '70-79%' 9 '80-89%' 10 '90-100%'
```

RETEMP   Whether first job following first birth is full-time or part-time

Derived from *Your Life since 1974* (Elias data).

Variables used:

whether in a full-timejob variables from Elias ACCNCDS dataset
whether in a part-time job variables from Elias ACCNCDS dataset
whether in any employmentvariables from Elias ACCNCDS dataset
TOTBTH (derived)
MTHRET (derived)
NBIRTHI (derived)

Frequency

```
RETEMP


Value Label                    Value  Frequency  Percent  Percent  Percent

no return                       .00       761      13.1     19.5     19.5
returned full-time             1.00      1366      23.6     35.1     54.6
returned part-time             2.00      1724      29.7     44.3     98.9
ret but no hrs                 3.00        43       .7      1.1    100.0
                                .          628      10.8   Missing
no birth                       9.00      1277      22.0   Missing
                                       -------   -------  -------
                               Total      5799     100.0    100.0

Valid cases      3894    Missing cases    1905
```

SPSS code

```
********************************************************************************
 * define vectors

********************************************************************************
 vector ptemp=pt1 to pt216
 vector allemp=emp1 to emp216
 *

********************************************************************************
 * declare missing values

********************************************************************************
 loop #i=l to 216
 .  if (allemp(#i) eq 9 and ftemp(#i) eq 0) ftemp(#i)=9
 .  if (allemp(#i) eq 9 and ptemp(#i) eq 0) ptemp(#i)=9
 .  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ftemp(#i)=9
 .  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ptemp(#i)=9
 end loop
```

```
 missing values ed1 to rnar216 (8,9)
 *

*******************************************************************************
 * compute whether employment information is missing

*******************************************************************************
 compute empmiss=sum(emp1 to emp216)
 *drop women with missing employment information (n=608)
 select if ~missing(empmiss)
 *

*******************************************************************************
 * compute whether returned full-time or part-time (first return)

*******************************************************************************
 compute  mthretft=O/* month returned full-time
 compute  monthft=0
 compute  mthretpt=O/*month returned part-time
 compute  monthpt=0
 compute  mthretem=O/*month returned any emp
 compute  monthemp=0
 if (totbth eq 0) mthretft=999
 if (totbth eq 0) monthft=9
 if (totbth eq 0) mthretpt=999
 if (totbth eq 0) monthpt=9
 if (totbth eq 0) mthretem=999
 if (totbth eq 0) monthemp=9
 missing values mthretft mthretpt mthretem (999)
               /monthft monthpt monthemp(9)
 do if -(missing(mthret))
 .  loop #i=nbirth1 to intview if (mthretft=o)
 .    if (ftemp (#i) eq 1) mthretft=#i
 .    if (ftemp (#i) eq 1) monthft=l
 .  end loop
 .  loop #i=nbirth1 to intview if (mthretpt=O)
 .    if (ptemp (#i) eq 1) mthretpt=#i
 .    if (ptemp (#i) eq 1) monthpt=l
 .  end loop
 .  loop #i=nbirth1 to intview if (mthretem=o)
 .    if (allemp(#i) eq 1) mthretem=#i
 .     if (allemp(#i) eq 1) monthemp=l
 .    end loop
 end if
 *
 compute retemp=O/*whether returned full-time or part-time
 if (monthft eq 1 and monthpt eq 0) retemp=l  if (monthft eq 0 and monthpt
eq 1) retemp=2
 if (monthft eq 0 and monthpt eq 0 and monthemp=l) retemp=3
 do if (monthft=l and monthpt=l)
 .  if (mthretft le methretpt) retemp=1
 .  if (mthretft gt methretpt) retemp=2
 .  if (mthretft eq methretpt) retemp=1
 end if
 if (totbth eq 0) retemp=9
 missing values retemp  (9)
 val labels  retemp  0  'no  return'  1  'returned  full-time'  2  'returned
part-time'
         3 'ret but no hrs' 9 'no birth'
 *
```

RETURN   Whether entered employment after first birth

Dummy variable indicating whether a woman has made an entry to employment after her first birth. Derived from *Your Life since 1974* (Elias dataset).

Variables used:
NBIRTHI (derived)
MTHRET (derived)
TOTBTH (derived)

Frequency
RETURN

```
                                              Valid     Cum
Value Label              Value Frequency Percent Percent Percent

                          .00       761    13.1    19.5    19.5
                         1.00      3133    54.0    80.5   100,0
                           .        628    10.8   Missing
                         9.00      1277    22.0   Missing
                               ------- ------- -------
                         Total              5799   100.0    100.0
 Valid cases    3894   Missing cases   1905
```

SPSS code

```
*****************************************************************************
 *                               define                               vectors

*****************************************************************************
 vector            allemp=emp1                to               ernp216
  missing        values        edl        to        mar216        (8,9)

 *     compute    whether    employment    information    is    missing

*****************************************************************************
 compute            empmiss=sum(emp1              to            emp216)
  *     drop      women      missing      all      employment      information
   select                      if                  ~missing(empmiss)

*****************************************************************************
 * compute interval between first birth and first return to employment

*****************************************************************************
 compute      mthret=0       /*month      returned      to      employment
  if           (totbth            eq            0)            mthret=999
   missing                        values                      mthret(999)
    val       labels      mthret      999       'no       births'
     do                       if                  ~(missing(mthret))
      loop      #i=nbirth1      to      intview      if      (mthret=0)
      . if (allemp(#i) eq 1) mthret=#i
 end                                                              loop
  compute                                                  interval=0
   compute                                                 x=nbirthl+1
    do              if            mthret            gt            0
     .   compute return=1 /*women who have returned to employment
 .  loop #i=x to methret
 .     compute interval=interval+1
 .  end loop
 end                                                                if
  do   if   mthret=0   /*women   who   haven't   returned   to   employment
   .   compute return=0
 .  loop #i=x to intview
 .     compute interval=interval+1
 .  end loop
```

```
end                                                                              if
 end                                                                             if
  if              (totbth           eq              0)          interval=999
   if             (totbth           eq              o)            return=9
   missing         values          interval      (9999)/return        (9)
    var  labels  interval  'int  (mths)  first  birth  and  return  to  emp'
     val labels interval to return 999 'no births'
```

STAY   Staying in employment

Derived from the Elias *Your Life...* dataset. This was the number of months a woman stayed in employment afeter making her first return. Counting started front the month after her return entry to employment after her first birth, up to and including her last month in employment, or the month before 1991 interview, whichever was the sooner.   Women who left employment before interview were given a value of 1 on the flag variable (LEFT) and women who had not left before they were interviewed (censored cases) were given a value of 0 (see Appendix 1, p6).

Source variables:
TOTBTH (derived)
RETURN (derived)
MTHRET (derived)
INTVIEW (derived)

TENURE91   Housing tenure in 1991

Variables used:

n503060 n502979

Frequency

```
TENURE91 Housing tenure in 1991


                                            Valid     Cum
Value Label               Value  Frequency  Percent  Percent  Percent

owns outright              1.00       177      3.1      3.3      3.3
mortgage                   2.00      4031     69.5     74.4     77.7
social housing             3.00       918     15.8     16.9     94.6
other rented               4.00       243      4.2      4.5     99.1
other                      5.00        47       .8       .9    100.0
missing                   99.00       383      6.6   Missing
                                    -------  -------  -------
                          Total      5799    100.0    100.0

Valid cases    5416     Missing cases     383
```

SPSS code

```
*
* Compute CM's housing tenure in 1991
*
compute tenure91=99
if (n502979 eq 1) tenure91=1
if (n502979 eq 2) tenure91=2
if ((n502979 ge 4 and n502979 le 6) and (n503060 eq 1 or n503060 eq2))
   tenure91=3
if ((n502979 ge 4 and n502979 le 6) and n503060 gt 2) tenure9l=4
if (n502979 gt 6) tenure91=5
*
var labels tenure91 'Housing tenure in 1991'
val labels tenure91 1 'owns outright' 2 'mortgage, 3 'social housing'
    4 'other rented' 5 'other' 99 'missing'
missing values tenure91 (99)
```

TIMEFB   Number of month in employment between First leaving full-time education and First birth

Derived from *Your Life since 1974*

Variables used:

NBIRTH1 (derived)
LEFTED (derived)
job history variables derived by Pierelia Paci job1 to job216)

Frequency

	Mean	SD	Min	Max	N
TIMEFB	77.15	46.77	0	202	3849

SPSS code

```
*****************************************************************************
 * define vectors

*****************************************************************************
 vector jbhst=jobl to job216
 *

*****************************************************************************
 * declare missing values

*****************************************************************************
 missing values job1 to job216 (-1)
 *

*****************************************************************************
 * compute whether employment information is missing

*****************************************************************************
 count empmiss=jobl to job216 (mis)
 *
 select if empmiss lt intview
 *

*****************************************************************************
 * compute number of months in employment between leaving school and
 * first birth (to be used in ptearn4)
 *
 do if ~mis(nbirth1)
 compute timefb=0
 loop #i=lefted to nbirth1
 . if (jbhst(#i) eq 1 or jbhst(#i) eq 3 or jbhst(#i) eq 4) timefb=timefb+1
 end loop
```

TIMEMP   Number of months in employment between first leaving full-time education and interview

Derived from Your Life at 33

Variables used:

LEFTED (derived)
INTVIEW (derived)

job history variables derived by Pierella Paci (jobl to job216)

Frequency

	Mean	SD	Min	Max	N
TIMEMP	130.46	51.63	0	210	5583

SPSS code

```
******************************************************************************
 * define vectors

******************************************************************************
 vector jbhist=job1 to job216
 *

******************************************************************************
 * declare missing values

******************************************************************************
 missing values job1 to job216 (-1)
 *



******************************************************************************
 * compute whether employment information is missing

******************************************************************************
 count empmiss=jobl to job216 (mis)
 *
 select if empmiss lt intview
 *



******************************************************************************
 * compute proportion of time in a job leaving school to interview

******************************************************************************
 * compute date first leaving FT education
 *
 missing values jobl to job216 ()
 compute lefted=o
 loop #i=7 to intview if (lefted=O)
 . if (jbhst(#i) ne 2) lefted=#i
 end loop
 *
 *  NB: Case number 050032X has had her first 8 job months recoded.  She
 *  originally had them as missing and her next 10 month weere in full-time
 *  ed.  So I have recodede jobl to job8 as ft ed too.
```

```
*
execute
if (lefted eq 0) lefted=7  *
read data again
*
vector jbhst=jobl to job216
missing values job1 to job216 (-1)
count empmiss=job1 to job216 (mis)
select if empmiss lt intview
*
* compute number months in employment between leaving school and interview
 *
*
compute timemp=0
loop #i=lefted to intview
. if (jbhst(#i) eq 1 or jbhst(#i) eq 3 or jbhst(#i) eq 4) timemp=timemp+1
end loop
*
* compute number month with missing job information between leaving
* education and interview
compute mis1=0
loop #i=lefted to intview
. if (mis(jbhst(#i))) mis1=mis1+1
end loop
compute pmis1=mis1/(intview-lefted)*100 /* proportion months with missing
*                                          job info betweren left ed
*                                          intview
*
recode pmis1 (lo thru 9.99=1) (10.0 thru 19.99=2) (20.00 thru 29.99=3)
       (30.00 thru 39.99=4) (40.00 thru 49.99=5) (50.00 thru 59.99=6)
```

TOTBTH/TOTBTHX   Total number of live births calculated from *Your Life...*, supplemented by information from *pregnancy history* and the *household grid*.

Variables used:

birth to a mother or father from option Elias ACCNDS program
NBIRTHI to NBIRTH9 (derived)

Frequency

```
TOTBTH
                                                  Valid     Cum
Value Label             Value  Frequency  Percent  Percent  Percent

                          .00      1209     21.7    23.9    23.9
                         1.00       947     17.0    18.7    42.6
                         2.00      1969     35.3    38.9    81.6
                         3.00       729     13.1    14.4    96.0
                         4.00       158      2.8     3.1    99.1
                         5.00        35      .6      .7    99.8
                         6.00         6      .1      .1    99.9
                         7.00         2      .0      .0    99.9
                         8.00         1      .0      .0   100.0
                         9.00         2      .0      .0   100.0
missing birth info      99.00       525      9.4   Missing
                                 -------  -------  -------
                        Total      5583    100.0   100.0

Valid cases    5058    Missing cases    525


TOTBTHX
                                                  Valid     Cum
Value Label             Value  Frequency  Percent  Percent  Percent

                         1.00       934     24.0    24.0    24.0
                         2.00      1960     50.3    50.3    74.3
                         3.00       773     19.9    19.9    94.2
                         4.00       176      4.5     4.5    98.7
                         5.00        39      1.0     1.0    99.7
                         6.00         7      .2      .2    99.9
                         7.00         2      .1      .1    99.9
                         8.00         1      .0      .0    99.9
                         9.00         2      .1      .1   100.0
                                 -------  -------  -------
                        Total      3894    100.0   100.0

Valid cases    3894    Missing cases       0
```

SPSS code

```
* compute total number of children resulting from each birth indentified by
  nbirth1-9
 *
do                              if                        missing(nbirth2)
 .  compute totbth=1.
.  compute totbthx=l
.  if (mchild1 eq mchild2) totbthx=2
.  if (mchild1 eq mchild2) twinsb1=1
end                                                                     if.
 do      if      ~missing(nbirth2)     and      missing     (nbirth3)
 .  compute totbth=2
.  compute totbthx=2
.  if (mchild2 eq mchild3) totbthx=3
.  if (mchild2 eq mchild3) twinsb2=1
end                                                                     if.
 do        if        ~missing(nbirth3)     and     missing(nbirth4)
 .  compute totbth=3
.  compute totbthx=3
.  if (mchild3 eq mchild4) totbthx=4
.  if (mchild3 eq mchild4) twinsb3=1
end                                                                     if
 do      if      ~missing(nbirth4)     and     missing     (nbirth5)
 .  compute totbth=4
.  compute totbthx=4
.  if (mchild4 eq mchilds) totbthx=5
.   if (mchild4 eq mchilds) twinsb4=1
end                                                                     if
 do      if      ~missing(nbirth5)     and     missing     (nbirth6)
 .  compute totbth=5
.  compute totbthx=5
.  if (mchilds eq mchild6) totbthx=6
.  if (mchild5 eq mchild6) twinsb5=1
end                                                                     if
 do      if      ~missing(nbirth6)     and     missing     (nbirth7)
 .  compute totbth=6
.  compute totbthx=6
.  if (mchild6 eq mchild7) totbthx=7
.  if (mchild6 eq mchild7) twinsb6=1
end                                                                     if
 do      if      ~missing(nbirth7)     and     missing     (nbirth8)
 .  compute totbth=7
.  compute totbthx=7
.  if (mchild7 eq mchild8) totbthx=8
end                                                                     if
 do      if      -missing(nbirth8)     and     missing     (nbirth9)
 .  compute totbth=8
.  compute totbthx=8
.  if (mchild8 eq mchild9) totbthx=9
end                                                                     if
 if                    ~missing(nbirth9)                      totbth=9
  conpute                                                     totbhx=9
    *
   var    labels           totbth   'total   number   of   maternities'
    var labels        totbthx 'total number of children from each birth'
     var     labels                    twinsbl    'twins    birth    1'
      var    labels                 twinsb2    'second    birth    twins'
       var    labels                 twinsb3    'third    birth    twins'
        var    labels                 twinsb4    'fourth    birth    twins'
         var    labels                 twinsbs    'fifth    birth    twins'
          var    labels                 twinsb6    'sixth    birth    twins'
             *
```

TOTCHLD   Total number of dependent children (ie under 16) in the household in 1991

Calculated from the *household grid* on p53 of the *Cohort Member Interview*.

Variables used:

n502620 n502626 n502632 n502638 n502644 n502650 n502656 n502662 n502668 n502618
n502624 n502630 n502636 n502642 n502648 n502654 n502660
AGEYCH (derived)

Frequency

```
TOTCHILD  Tot number of dependent children in 1991

                                               Valid     Cum
Value Label               Value  Frequency  Percent  Percent  Percent

                           1.00       1084     18.7     18.7     18.7
                           2.00       2226     38.4     38.4     57,1
                           3.00        825     14.2     14.2     71.3
                           4.00        207      3.6      3.6     74.9
                           5.00         39       .7       .7     75.5
                           6.00          4       .1       .1     75.6
                           8.00          3       .1       .1     75.7
no dep chld in hhold      98.00       1222     21.1     21.1     96.7
missing                   99.00        189      3.3      3.3    100.0
                                    -------  -------  -------
                          Total       5799    100.0    100.0

Valid cases     5799    Missing cases          0
```

 SPSS code

NOTE
The following cases need to be corrected for this variable:
```
 do if serial eq '511123T'
 compute totchld=98
 end if


 ****************************************************************************
 * compute total number of depenedent children in 1991 hosuehold

 ****************************************************************************
 compute totchild=0
 do repeat x=n502620 n502626 n502632 n502638 n502644 n502650 n502656 n502662
          n502668/
          y=n502618 n502624 n502630 n502636 n502642 n502648 n502654 n502660
          n502666

 .  if (((x eq 3) or (x eq 4) or (x eq 5) or (x eq 6)) and (y le 16))
      totchld=totchld+l
 end repeat

 if (ageych eq 97 or ageych eq 999) totchld=99
 if (ageych eq 98 or ageych eq 99) totchld=98
 recode totchld (0=98)
 *
 if (totchld eq 99 and neverp eq 1) totchld=98
```

```
  *
 var labels totchld 'Tot number of dependent children in 1991 hhold'
 val labels totchld 98 'no dep chld in hhold, 99 'missing'
```

WES Current/last occupation in 1991 coded to Women & Employment Survey occupational
groups

Derived from the cohort member interview.

NB: This variable will have to be re-run to allow for the checking and re-coding of occupation
that occurred in summer 1995.

Variables used:

n540056 n540045 n540053

Frequency

```
WES   wes occup coding, current/last occup in


                                                Valid      Cum
Value Label                Value  Frequency  Percent  Percent  Percent

professional                1.00       153      2.6      2.6      2.6
teachers                    2.00       244      4.2      4.2      6.8
nurses                      3.00       511      8.8      8.8     15.7
intermed n-m                4.00       959     16.5     16.5     32.2
clerical                    5.00      1279     22.1     22.1     54.3
shop                        6.00       416      7.2      7.2     61-4
skilled man                 7.00       503      8.7      8.7     70.1
semi-skld fee               8.00       280      4.8      4.8     74.9
childcare/domestic          9.00       618     10.7     10.7     85.6
other semi-skld            10.00       139      2.4      2.4     88.0
unskilled                  11.00       233      4.0      4.0     92.0
armed forces               97.00         4       .1       .1     92.1
missing                    99.00       460      7.9      7.9    100.0
                                   -------  -------  -------
                           Total      5799    100.0    100.0

Valid cases    5799    Missing cases        0
```

SPSS code

```
 * COMPUTE WES OCCUPATION FOR CURRENT/MOST RECENT JOB IN 1991
* This uses Clare Ward's code
*
*
* compute occupation after Women and Employment survey using operational
* occupation code, social class and socioeconomic group. After Dale,1987
* "Occupational inequality, gender and life-cycle" in Work, Employment and
* Society, vol 1(3) pp 326-351
*
compute wes=99
do if (n540056 eq 10)
. compute wes=1 /*professional
. else if any(n540045,'032','033','034')
.      compute wes=2 /*teachers
. else if any(n540045,'037','038','039','043','045','046','047',
                '048,,'049',,050'0801)
. compute wes@3 /*nurses & related
. else if (n540056 eq 20) or
          any(n540045,'058','061','091','093','104','105','1061) or
          (any(n540045,'186','187') and any(n540053,11,12,21,22))
. compute wes=4 /*other intermediate non-man
.                                      else                       if
any(n540045,'029,,'0631,1064','079','112','113','114','115','117',
              '118','119','120')
. compute wes=5 /*clerical
. else if any(n540045,'116','125','127','129','131','133','134')
. compute wes=6 /*shop workers
. else if (n540056 eq 32) or
          any(n540045,'052','062','122') or
          (n540045 eq '159' and any(n540053,11,12,21,22,120)) or
          (any(n540045,'137','140') and (n540053 eq 52)) or
          (any(n540045,'137','138','139') and n540053 eq 60)
. compute wes=7 /*skilled
.                                      else                       if
any(n540045,'176','177','178','195','1961,1201','204','212','230',

'242','244','276','283','285','295','296','290','292','287,,'297',
            '298','299','333') or
            (any(n540045,1184','229')  and  any(n540053,11,12,21,100,120))
or
            (any(n540045,'199','237','241') and
            any(n540053,11,12,100,120)) or
            (n540045 eq '202' and any(n540053,11,21,90,120)) or
            (n540045 eq '286' and any(n540053,100,120))
.    compute wes=8 /*semi-skilled factory
.   else if any(n540045,'144','145','146','151','156','165')
.    compute wes=9 /*semi-skilled domestic
.   else if (n540056 eq 40 and was no 8 and was no 9) or

any(n540045,'061','109','110','121','123','126','130','132','157',
            '162','315','328') or
            (any(n540045,'140','142','264','311','317')              and
any(n540053,11,12,
       100,120)) or
      (n540045 eq '141' and n540053 eq 100) or
      (any(n540045,'166','167','169','170','172') and n540053 eq 100) or
            (n540045 eq '168' and any(n540053,11,12,21,22,80,100)) or
      (any(n540045,'303','304','3161) and any(n540053,11,21,22,100,120))
. compute wes=10 /*other semi-skilled
. else if (n540056 eq 50)
. compute wes=11 /*unskilled
. else if (n540053 eq 160)
. compute wes=97 /*armed forces
end if  *
var labels wes 'wes occup coding, current/last occup in 1991'
val labels was 1 'professional' 2 'teachers' 3 'nurses' 4 'intermed n-m'
```

```
5 'clerical' 6 'shop' 7 'skilled man' 8 semi-skld fee'
9 'childcare/domestic, 10 'other semi-skld' 11 'unskilled'
97 'armed forces' 99 'missing'
```

SECTION 2: DERIVED VARIBLES WHERE "MONTHS" ARE THE CASE

Introduction

This part of the project examined women's labour market particpation a) over their entire working life since childbirth and b) from childbirth to the first return to paid work.
The periods in question were treated as discrete time monthly records. Individuals' behaviour in each month was calculated and each month's dichotomous activity (whether paid work or not) bacame a record in an expanded data set.

SPSS program to create a file where "months" are the case

See Appendix 3, Part1

Merging files:
The code for mergeing separate files is included in Appendix 3, Part2

Frequencies from first birth to interview

272,100 monthly records were produced
(See Appendix 3, Part3)

Frequencies from first birth to first job

91,467 monthly records were produced
(See Appendix 3, Part4)

Job transitions

Each two consecutive months of an individuals work history can be examined on a rolling basis and classified into on of a number of possible transitions or stayer categories.
(See Appendix 3, Part5)

References

Ferri, E. (1993) (ed) *Life at 33. The fifth follow-up of the National Child Development Study*, London: National Children's Bureau.

Elias, P. (1993) *ACCNCDS: Software for access to life and work history information collected in the fifth sweep of the National Child Development Study*, Institute for Employment Research, University of Warwick.

APPENDIX 1: Identifying "Mothers"

SPSS Code to identify "mothers" returning to employment after childbirth

```
****************************************************************************
* define vectors
****************************************************************************
vector ftemp=ft1 to ft216
vector ptemp=pt1 to pt216
vector allemp=emp1 to emp216
vector mbirth=bth1 to bth216
vector educ=ed1 to ed216
vector living=liv1 to liv216
vector married=mar1 to mar216
*vector nbirth(9,f3.0)
*
****************************************************************************
* compute month of interview
****************************************************************************
compute intview=0
loop #i=1 to 216 if (intview=0)
  if (allemp (#i) eq 8) intview=#i
end loop
recode intview (0=216)
*
****************************************************************************
execute /*make SPSS read the data once
****************************************************************************
* define vectors again
****************************************************************************
vector ftemp=ft1 to ft216
vector ptemp=pt1 to pt216
vector allemp=emp1 to emp216
vector educ=ed1 to ed216
vector living=liv1 to liv216
vector married=mar1 to mar216
*
****************************************************************************
* declare missing values
****************************************************************************
loop #i=1 to 216
  if (allemp(#i) eq 9 and ftemp(#i) eq 0) ftemp(#i)=9
  if (allemp(#i) eq 9 and ptemp(#i) eq 0) ptemp(#i)=9
  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ftemp(#i)=9
  if (allemp(#i) eq 1 and ftemp(#i) eq 0 and ptemp(#i) eq 0) ptemp(#i)=9
end loop
missing values ed1 to mar216 (8,9)
*
****************************************************************************
* compute whether employment information is missing
****************************************************************************
compute empmiss=sum(emp1 to emp216)
* drop women with missing employment information (n=608)
select if ~missing(empmiss)
*
****************************************************************************
* count total number of births
****************************************************************************
if  (missing(totbth)) totbth=99
missing values totbth (99)
value labels totbth 99 'missing birth info'
* drop women with missing birth information
select if ~missing(totbth)
*
****************************************************************************
* code to establish timing of successive events ie. births
```

```
*************************************************************************
compute prev=1 /*birth number
compute prevmth=1 /*month of birth
compute flag=0
loop #a=prevmth to intview
 loop #b=prev to totbth
   if (mbirth (#a) eq 1) nbirth (#b)=#a
   if (mbirth (#a) eq 1) flag=1
   if (mbirth (#a) eq 1) prev=#b+1
   if (mbirth (#a) eq 1) prevmth=#a+1
 end loop if flag
end loop.
if (missing(nbirth1)) nbirth1=999
if (missing(nbirth2)) nbirth2=999
if (missing(nbirth3)) nbirth3=999
if (missing(nbirth4)) nbirth4=999
if (missing(nbirth5)) nbirth5=999
if (missing(nbirth6)) nbirth6=999
if (missing(nbirth7)) nbirth7=999
if (missing(nbirth8)) nbirth8=999
if (missing(nbirth9)) nbirth9=999
missing values nbirth1 to nbirth9 (999)
val labels nbirth1 to nbirth9 999 'no birth in slot'
*
*************************************************************************
* Sorting out the 27 women who's first birth (in the birth history) was a
* stillbirth
*************************************************************************
do if serial='041001K'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='051012W' /* first two births stillbirths
  compute nbirth1=nbirth3
  compute totbth=2
end if
*
do if serial='087034K'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='092154Z'
  compute nbirth1=nbirth2
  compute totbth=1
end if
*
do if serial='098022P'
  compute nbirth1=nbirth2
  compute totbth=1
end if
*
do if serial='110318Y'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='280024J'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
```

```
do if serial='288025D'/* first two births are stillbirths
  compute nbirth1=nbirth3
  compute totbth=1
end if
*
do if serial='289087J'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='290011E'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='308014D'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='400076S'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
* do if serial='400103S'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='481055R'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='500211C'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='514020Y'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute nbirth3=nbirth4
  compute totbth=3
end if
*
do if serial='524005K'
  compute nbirth1=nbirth2
  compute totbth=1
end if
*
do if serial='591006R'
  compute totbth=0
end if
*
do if serial='620041Z'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
```

```
*
do if serial='660032Z'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='740051Y'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute nbirth3=nbirth4
  compute nbirth4=nbirth5
  compute totbth=4
end if
*
do if serial='750063N'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='815051P'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='825104Q'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
do if serial='850039Y'
  compute totbth=0
end if
*
do if serial='950105S'
  compute totbth=0
end if
*
do if serial='X79044A'
  compute nbirth1=nbirth2
  compute nbirth2=nbirth3
  compute totbth=2
end if
*
*****************************************************************************
* Sorting out the two women who's first birth (in the birth history) was a
*  miscarriage
*****************************************************************************
do if serial='084009U'/* first and third births were miscarriages
  compute nbirth1=nbirth2
  compute nbirth2=nbirth4
  compute totbth=2
end if
*
do if serial='X82108U'/* only birth is a miscarriage
  compute totbth=0
end if
*
*****************************************************************************
* compute interval between first birth and first return to employment
*****************************************************************************
compute mthret=0 /*month returned to employment
if (totbth eq 0) mthret=999
if mis(totbth) mthret=9999
```

```
missing values mthret(999, 9999)
val labels mthret 999 'no bth' 9999 'missing'
*
do if ~(missing(mthret))
loop #i=nbirth1 to intview if (mthret=0)
   if (jbhst(#i) eq 1 or jbhst(#i) eq 3 or jbhst(#i) eq 4) mthret=#i
end loop
compute interval=0
compute x=nbirth1+1
do if mthret gt 0
  compute return=1 /*women who have returned to emp
  loop #i=x to mthret
     compute interval=interval+1
  end loop
end if
do if mthret=0 /*women who havn't returned to employment
  compute return=0
  loop #i=x to intview
     compute interval=interval+1
  end loop
end if
end if
if (totbth eq 0) interval=999
if (totbth eq 0) return=9
if mis(totbth) interval=9999
if mis(totbth) return=99
missing values interval (999,9999)/return (9,99)
var labels interval 'int (mths) first birth and return to emp'
val labels interval to return 999 'no bths' 9999 'missing'
*
****************************************************************************
* compute number of births
****************************************************************************
compute nobths=0
if (totbth eq 1) nobths=1
if (totbth ge 2) nobths=2
if (totbth eq 0) nobths=9
missing values nobths (9)
val labels nobths 9 'no births'
*
****************************************************************************
* compute how many births in gap between first birth and first return to
* employment
****************************************************************************
if (totbth eq 0) bthsgap=9
if (totbth eq 1) bthsgap=8
missing values bthsgap (8,9)
do if totbth ge 2
  compute bthsgap=0
  if (return eq 1 and mthret lt nbirth2) bthsgap=1/* no births in gap
  if (return eq 1 and mthret ge nbirth2 and mthret lt nbirth3) bthsgap=2
*  1 birth in gap
  if (return eq 1 and mthret ge nbirth3) bthsgap=3 /*2+ births in gap
end if
val labels bthsgap  0 'no return' 1 'no bths in gap' 2 '1 bth in gap'
          3 '2+ bths in gap' 8 '1 bth only' 9 'no births'
*
****************************************************************************
* compute age of mother at first birth
****************************************************************************
compute magebth1=0
if (totbth eq 0) magebth1=99
if mis(totbth) magebth1=999
do if totbth ge 1
  if (nbirth1 ge 1 and nbirth1 le 50) magebth1=1
  if (nbirth1 gt 50 and nbirth1 le 110) magebth1=2
  if (nbirth1 ge 111 and nbirth1 le 170) magebth1=3
```

```
      if (nbirth1 ge 171 and nbirth1 le intview) magebth1=4
end if
*missing values magebth1 (99,999)
var labels magebth1 'mothers age at first birth'
val labels magebth1 1 'lt 20 yrs' 2 '20-24 yrs' 3 '25-29 yrs' 4 '30+ yrs'
          99 'no birth' 999 'missing'
*
******************************************************************************
*
* for those who returned to employment (first return) after their first
birth
* calculate how long they stayed in employment
******************************************************************************
if ((totbth eq 0) or (totbth eq 1)) stay=999
if (return eq 0) stay=998
missing values stay (998,999)
val labels stay 998 'no return' 999 'no bths'
do if return=1
  compute stay=0
  compute a=0
  loop #i=mthret to intview if (a=0)
    do if (allemp(#i) eq 0)
+     compute z=#i
+     compute a=1
      else
+     compute z=intview
    end if
  end loop
  compute b=mthret+1
  loop #i=b to z
    if (allemp (#i) eq 1) stay=stay+1
  end loop
*  compute whether left employment before intview
  compute y=intview-b
  compute left=0
  if (stay gt 0 and stay lt y) left=1
end if
if (totbth eq 0) left=9
if (return eq 0) left=8
missing values left (8,9)
val labels left 8 'no return' 9 'no bths'
*
******************************************************************************
*
* Compute marital status at time of first birth
******************************************************************************
*
if (totbth eq 0) marital1=9
missing values marital1 (9)
do if totbth gt 0
  compute marital1=0
  loop #i=1 to nbirth1 if (marital1=0)
    if (nbirth1=#i and married(#i) eq 1) marital1=1
    if (nbirth1=#i and married(#i) eq 1 and living(#i) eq 1) marital1=1
    if (nbirth1=#i and married(#i) eq 0 and living(#i) eq 1) marital1=2
  end loop
end if
var labels marital1 'partnership status at first bth'
val labels marital1 1 'married' 2' cohabiting' 0 'living alone' 9 'no bths'
*
******************************************************************************
* compute proportion of time employed since first birth
******************************************************************************
compute totempb1=0
do if totbth ge 1
loop #i=nbirth1 to intview
  if (allemp(#i) eq 1) totempb1=totempb1+1
```

```
end loop
compute d2=intview-nbirth1
compute propemb1=(totempb1/d2)*100
if (propemb1 gt 100) propemb1=100
end if
if (totbth eq 0) propemb1=999
missing values propemb1 (999)
*
recode propemb1 (lo thru 9.99=1) (10.0 thru 19.99=2) (20.00 thru 29.99=3)
       (30.00 thru 39.99=4) (40.00 thru 49.99=5) (50.00 thru 59.99=6)
       (60.00 thru 69.99=7) (70.00 thru 79.99=8) (80.00 thru 89.99=9)
       (90.00 thru 100=10)
var labels propemb1 'Prop time in emp since first bth'
val labels propemb1 12 '<10%' 2 '10-19%' 83 '20-29%' 4 '30-39%' 5 '40-49%'
           6 '50-59%' 7 '60-69%' 8 '70-79%' 9 '80-89%' 10 '90-100%'
           999 'no bths'
*
if (totbth eq 0)totret=999
if (totempb1 eq 0) propret=0
do if totbth ge 1
.  do if totempb1 ge 1
.   compute totret=0
.   compute propret=(totempb1-interval)/(d2-interval)*100
end if
end if
if (tptbth eq 0) propret=999
missing values propret (999)
*
recode propret (lo thru 9.99=1) (10.0 thru 19.99=2) (20.0 thru 29.99=3)
   (30.0 thru 39.99=4) (40.0 thru 49.99=5) (50.0 thru 59.99=6)
   (60.0 thru 69.99=7) (70.0 thru 79.99=8) (80.0 thru 89.99=9)
   (90.o thru 100=10)
val labels propret 1 '<10%' 2 '10-19%' 3 '20-29%' 4 '30-39%' 5 '40-49%'
           6 '50-59%' 7 '60-69%' 8 '70-79%' 9 '80-89%' 10 '90-100%'
var labels propret 'Prop time in emp since first return'
```

APPENDIX 2: Data cleaning & problem cases in identifying mothers

Part1: Birth histories

```
  **************************************************************************
* Sorting out the 27 women who's first birth (in the birth history) was a
* stillbirth
  **************************************************************************
do if serial='041001K'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
.   compute totbth=2
end if
*
do if serial='051012W' /* first two births stillbirths
. compute nbirthl=nbirth3
. compute totbth=2
end if
*
do if serial='087034K'
. compute nbirthl=nbirth2
. compute nbirth2=nbirth3
. compute totbth=2
end if
*
do if serial='092154Z'
. compute nbirthl=nbirth2
. compute totbth=1
end if
*
do if serial='098022P'
. compute nbirthl=nbirth2
. compute totbth=1
end if
*
do if serial='110318Y'
. compute nbirthl=nbirth2
. compute nbirth2=nbirth3
. compute totbth=2
end if
*
do if serial='280024J'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
.   compute totbth=2
end if
*
do if serial='28802SD'/* first two births are stillbirths
.   compute nbirthl=nbirth3
.   compute totbth=1
end if
*
do if serial='289087J'
. compute nbirthl=nbirth2
. compute nbirth2=nbirth3
. compute totbth=2
end if
*
 do if serial='290011E'
. compute nbirthl=nbirth2
. compute nbirth2=nbirth3
. compute totbth=2
end if
*
do if serial='308014D'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
```

```
.  compute totbth=2
 end if
*
do if serial='400076S'
.  compute nbirthl=nbirth2

.  compute nbirth2=nbirth3
.  compute totbth=2
end if
*
do if serial='400103S'
. compute nbirthl=nbirth2
. compute nbirth2=nbirth3
. compute totbth=2
end if
*
do if serial='481055R'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute totbth=2
end if
*
do if serial='500211C'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute totbth=2
end if
*
do if serial='514020Y'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute nbirth3=nbirth4
.  compute totbth=3
end if
*
do if serial='524005K'
.  compute nbirthl=nbirth2
.  compute totbth=1
end if
*
do if serial='591006R'
.  compute totbth=0
end if
*
do if serial='620041Z'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute totbth=2
end if
*
 do if serial='660032Z'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute totbth=2
end if
*
do if serial='740051Y'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
.  compute nbirth3=nbirth4
.  compute nbirth4=nbirthS
.  compute totbth=4
end if
*
do if serial='750063N'
.  compute nbirthl=nbirth2
.  compute nbirth2=nbirth3
```

```
.   compute totbth=2
end if
*
do if serial='815051P'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
.   compute totbth=2
end if
*
do if serial='825104Q'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
.   compute totbth=2
end if
*
do if serial='850039Y'
.   compute totbth=0
end if
*
do if serial='950105S'
.   compute totbth=0
end if
*
do if serial='X79044A'
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth3
.   compute totbth=2
end if
****************************************************************************
* Sorting out the 2 women whose 1st birth (in the birth history) was a
* miscarriage
****************************************************************************
do if serial='084009U'/* first and third births were miscarriages
.   compute nbirthl=nbirth2
.   compute nbirth2=nbirth4
.   compute totbth=2
end if
*
do if serial='X82108U'/* only birth is a miscarriage
.   compute totbth=0
end if
```

Part2: Household grid

```
do if serial='045006S'
.   compute n502626=3
.   compute n502632=3
.   compute n502638=3
end if
do if serial='048019T'
.   compute n502620=3
end if
do if serial='088026R'
.   compute n502626=3
.   compute n502632=3
end if
do if serial='120135W'
.   compute n502626=3
end if
do if serial='147002B'
.   compute n502626=3
.   compute n502632=3
.   compute n502638=3
.   compute n502644=3
end if
do if serial='186122J'
.   compute n502620=1
.   compute n502626=3
.   compute n502632=3
end if
do if serial='421062Y'
.   compute n502620=1
.   compute n502626=3
.   compute n502632=3
.   compute n5026638=3
end if
do if serial='500395S'
.   compute n502620=1
.   compute n502626=3
end if
do if serial='510037V'
.   compute n502626=3
.   compute n502632=3
end if
do if serial='510085H'
.   compute n502620=2
.   compute n502626=3
end if
do if serial='511122R'
.   compute n502626=3
.   compute n502632=3
end if
do if serial='516004M'
.   compute n502620=1
.   compute n502626=3
end if
do if serial='528044S'
.   compute n502620=1
.   compute n502626=3
.   compute n502632=3
end if
do if serial='52901SQ'
.   compute n502620=1
.   compute n502626=3
.   compute n502632=3
.   compute n502638=3
    compute n502644=3
```

```
end if
do if serial='550253C'
.  compute n502620=3
end if
do if serial='62011OS'
.  compute n502620=1
.  compute n502626=3
.  compute n502632=3
end if
do if serial='62016OJ'
.  compute n502620=1
.  compute n502626=3
.  compute n502632=3
.  compute n502638=3
.  compute n502644=3
end if
do if serial='720002W'
.  compute n502620=1
.  compute n502626=3
.  compute n502632=3
end if
do if serial='750109L'
.  compute n502620=1
.  compute n502626=3
end if
do if serial='840012V'
.  compute n502626=3
.  compute n502632=3
.  compute n502638=3
end if
do if serial='986013P'
.  compute n502620=3
end if
do if serial='986383Z'
.  compute n502626=3
end if
do if serial='986448B'
.  compute n502620=1
.  compute n502626=3
.  compute n502632=3
.  compute n502638=3
end if
do if serial='X80153P'
.  compute n502632=3
end if
do if serial='YOO316X'
.  compute n502626=3
end if
do if serial='Y30013X'
.  compute n502626=3
.  compute n502632=3
end if

************************************************************************
```

Part3: Particular problem cases

095034E. This case is identified as a mother in *Your Life...*, and her **household grid** indicates that she lives with her husband and two children. However her **pregnancy history** records that she had two children who are not living with her in 1991. This case seems to be a straightforward coding or punching error.

288025D. This case is identified as a mother in *Your Life...*, and her **household grid** and her pregnancy history indicates that she has two children living with her. However, in her **pregnancy history** the dates of birth for her children have been entered in slots 3 and 4 instead of slots 1 and 2, which have been set to missing.

782123K. This case is identified as a mother in *Your Life...*. Her **pregnancy history** gives the dates of birth for three children and records that two have died. However, her **household grid** indicates that she has two of her own children living with her.

932024Q. This case is identified as a mother in *Your Life...*. Her **pregnancy history** records that she has had 5 births none of whom are living with her in 1991. However, her **household grid** indicates that she has 5 of her own children living with her. This case seems to be a straightforward coding or punching error.

937034V. This case is identified as a mother in *Your Life...*. Her **pregnancy history** records dates of birth for two children (both born in 1991, twins) but is missing on whether they are living with her in 1991. However, in slot 3 she says she has a child living with her but fails to give a date of birth. Her **household grid** indicated that she has one child living with her, who is her own.

986205Y. This case is identified as a mother in *Your Life...*. Her **pregnancy history** records dates of birth for three births in slots 1, 2 and 3. The births in slots 2 and 3 appear to have died but the whereabouts of the birth for slot 1 is missing. Her **household grid** indicates that she lives with her husband and adopted child.

X7904OS. This case is identified as a mother by *Your Life...*. Her **pregnancy history** records that she had one birth who is not living with her in 1991 and her **household grid** indicates that she is living with her partner and two step children.

Particular problem cases (2)

043008L. This case is identified in *Your Life...* as not having any births. Her **pregnancy history** records the date of birth for a child but is missing on whether that child is living with her in 1991, however her **household grid** indicates that her own child is living in the household.

528007L. This case is identified in *Your Life...* as not having any births. However, her **pregnancy history** records that she has two births who were living with her in 1991, with missing dates of birth and her **household grid** indicates that she has two of her own children living in her household.

Particular problem cases (3)

514002W. This case is missing in *Your Life...*. Her *household grid* indicates that she has 3 children living in her household, and her *pregnancy history* records three pregnancies where the child is living with her, but no dates of birth.

783047A. This case is missing in *Your Life...*. Her *pregnancy history* records dates of birth for three pregnancies but is missing on whether these children were living with her in 1991. Her *household grid* indicates that she has two of her own children living with her plus one fostered child.

98639OW. This case is missing in *Your Life...* and there are no dates of birth or whereabouts of a child recorded in her *pregnancy history*. Her *household grid* indicates that there is an adopted child in her household.

X70054E. This case is missing in *Your Life...*. Her *household grid* indicates that she has three children living in her household and her *pregnancy history* records three pregnancies where the child is living with her, but no dates of birth.

APPENDIX 3: Creating a file where "months" are the case

Part 1: SPSS program to create a file where "months" are the case

```
****************************************************************************
*
* code to create a file in which the month is the case, for event history
 analysis

****************************************************************************
*
input program
data list file='eventraw.dat'/
     serial 1-7(a) inpart1 8-13 outpart1 14-19 inpart2 20-25 outpart2 26-31
     inpart3 32-37 outpart3 38-43 inpart4 44-49 outpart4 50-55
     statfpar 56-58 statpar2 59-61 statpar3 62-64 statpar4 65-67
     nbirth1 68-71 nbirth2 72-75 nbirth3 76-79 nbirth4 80-83 nbirth5 84-87
     nbirth6  88-91  nbirth7  92-95  nbirth8  96-99  nbirth9  100-103  totbth
104-106
     hiqual 107-108 n4875 109-110 n4870 111-112 interval 113-117
     intview 118-122 fsoc16 123-125 read16 126-129 maths16 130-133
     working 134-137 sjob1 138-141 ejob1 142-145 sjob2 146-149 ejob2 150-153
     sjob3 154-157 ejob3 158-161 sjob4 162-165 ejob4 166-169 sjob5 170-173
     ejob5 174-177 sjob6 178-181 ejob6 182-185 sjob7 186-189 ejob7 190-193
     sjob8 194-197 ejob8 198-201 sjob9 202-205 ejob9 206-209 sjob10 210-213
     ejob10 214-217 sjob11 218-221 ejob11 222-225 sjob12 226-229
     ejob12 230-233 lli23 234-236 mthreta 237-240 ten6mobb 241-243
     tenatb 244-246 ten6moab 247-249 parted 250-253 nworking 254-257
     snjob1 258-261 enjob1 262-265 snjob2 266-269 enjob2 270-273
     snjob3 274-277 enjob3 278-281 snjob4 282-285 enjob4 286-289
     snjob5 290-293 enjob5 294-297 snjob6 298-301 enjob6 302-305
     snjob7 306-309 enjob7 310-313 snjob8 314-317 enjob8 318-321
     snjob9 322-325 enjob9 326-329 snjob10 330-333 enjob10 334-337
     snjob11 338-341 enjob11 342-345 snjob12 346-349 enjob12 350-353
     read16ms 354-355 math16ms 356-357 nevpart 358-359 mchild1 360-363
     mchild2 364-367 mchild3 368-371 mchild4 372-375 mchild5 376-379
     mchild6 380-383 mchild7 384-387 mchild8 388-391 mchild9 392-395
     wherkid1 396-397 wherkid2 398-399 wherkid3 400-401 wherkid4 402-403
     wherkid5 404-405 wherkid6 406-407 wherkid7 408-409 wherkid8 410-411
     wherkid9 412-413 c1died 414-417 c2died 418-421 c3died 422-425
     c6died 426-429 c1lliv 430-433 c2lliv 434-437 c3lliv 438-441
     c6lliv 442-445
*n 148
*
leave serial to c6lliv
*
*
* re-number children of women who lose their first birth in the first month
*
do if (wherkid1 eq 2 or wherkid1 eq 4)
  do if (nbirth1 eq c1died) or (nbirth1 eq c1lliv)
    compute nbirth1=mchild2
    compute nbirth2=mchild3
    compute nbirth3=mchild4
    compute nbirth4=mchild5
    compute nbirth5=mchild6
    compute nbirth6=mchild7
    compute nbirth7=mchild8
    compute nbirth8=mchild9
    compute totbth=totbth-1
  end if
end if
*
*

loop month=nbirth1 to intview
*
```

```
*
missing values inpart1 outpart1 inpart2 outpart2 inpart3 outpart3 inpart4
        outpart4  (99999) /
        statfpar statpar2 statpar3 statpar4 lli23 (99)/
        working nbirth1 to nbirth9 nworking mthreta sjob1 to ejob12
        snjob1 to enjob12 mchild1 to mchild9 c1died to c6lliv (999)/
        sjob1  to ejob12   snjob1  to  enjob12   c1died  to  c6lliv  (998)/
sjob1 to ejob12 snjob1 to enjob12 (888) /
        fsoc16 read16 maths16 (-1)/
        nevpart wherkid1 to wherkid9 (9)
*
*
* compute time (in completed years) since first birth
*
compute year=0
if ((month ge nbirth1) and (month le (nbirth1+11)))  year=1
if ((month ge (nbirth1+12)) and (month le (nbirth1+23))) year=2
if ((month ge (nbirth1+24)) and (month le (nbirth1+35))) year=3
if ((month ge (nbirth1+36)) and (month le (nbirth1+47))) year=4
if ((month ge (nbirth1+48)) and (month le (nbirth1+59))) year=5
if ((month ge (nbirth1+60)) and (month le (nbirth1+71))) year=6
if ((month ge (nbirth1+72)) and (month le (nbirth1+83))) year=7
if ((month ge (nbirth1+84)) and (month le (nbirth1+95))) year=8
if ((month ge (nbirth1+96)) and (month le (nbirth1+107))) year=9
if ((month ge (nbirth1+108)) and (month le (nbirth1+119))) year=10
if ((month ge (nbirth1+120)) and (month le (nbirth1+131))) year=11
if ((month ge (nbirth1+132)) and (month le (nbirth1+143))) year=12
if ((month ge (nbirth1+144)) and (month le (nbirth1+155))) year=13
if ((month ge (nbirth1+156)) and (month le (nbirth1+167))) year=14
if ((month ge (nbirth1+168)) and (month le (nbirth1+179))) year=15
if ((month ge (nbirth1+180)) and (month le (nbirth1+191))) year=16
if ((month ge (nbirth1+192)) and (month le (nbirth1+203))) year=17
if ((month ge (nbirth1+204)) and (month le (nbirth1+215))) time=19
*
var labels year 'time (yrs) since first birth'
*
*
*
* compute periods that a person is in a partnership
*
* first recalculate dates so they start counting from Jan 1974 rather than
  1900
if (inpart1 eq 0) inp1=0
if (inpart1 ne 0) inp1=inpart1-888
if (outpart1 eq 0) outp1=0
if (outpart1 ne 0) outp1=outpart1-888
if (inpart2 eq 0) inp2=0
if (inpart2 ne 0) inp2=inpart2-888
if (outpart2 eq 0) outp2=0
if (outpart2 ne 0) outp2=outpart2-888
if (inpart3 eq 0) inp3=0
if (inpart3 ne 0) inp3=inpart3-888
if (outpart3 eq 0) outp3=0
if (outpart3 ne 0) outp3=outpart3-888
if (inpart4 eq 0) inp4=0
if (inpart4 ne 0)  inp4=inpart4-888
if (outpart4 eq 0) outp4=0
if (outpart4 ne 0) outp4=outpart4-888
*
*
* Thanks to Pam for this code
* calculate periods when in a married partnership
compute marhist=0
if sysmis(inp1) marhist=-9
if ((outp1 eq 0) and (inp1 le month) and statfpar eq 1) marhist=1
if ((outp1 ge 1) and (inp1 le month and outp1 gt month) and statfpar eq 1)
   marhist=1  if ((outp2 eq 0) and (inp2 le month) and statpar2 eq 1)
marhist=1
```

```
if ((outp2 ge 1) and (inp2 le month and outp2 gt month) and statpar2 eq 1)
   marhist=1
if ((outp3 eq 0) and (inp3 le month) and statpar3 eq 1) marhist=1
if ((outp3 ge 1) and (inp3 le month and outp3 gt month) and statpar3 eq 1)
   marhist=1
if ((outp4 eq 0) and (inp4 le month) and statpar4 eq 1) marhist=1
if ((outp4 ge 1) and (inp4 le month and outp4 gt month) and statpar4 eq 1)
   marhist=1
*
* calculate periods when in a cohabiting partnership
compute cohabhis=0
if sysmis(inp1) cohabhis=-9
if ((outp1 eq 0) and (inp1 le month) and statfpar eq 2) cohabhis=1
if ((outp1 ge 1) and (inp1 le month and outp1 gt month) and statfpar eq 2)
   cohabhis=1
if ((outp2 eq 0) and (inp2 le month) and statpar2 eq 2) cohabhis=1
if ((outp2 ge 1) and (inp2 le month and outp2 gt month) and statpar2 eq 2)
   cohabhis=1
if ((outp3 eq 0) and (inp3 le month) and statpar3 eq 2) cohabhis=1
if ((outp3 ge 1) and (inp3 le month and outp3 gt month) and statpar3 eq 2)
   cohabhis=1
if ((outp4 eq 0) and (inp4 le month) and statpar4 eq 2) cohabhis=1
if ((outp4 ge 1) and (inp4 le month and outp4 gt month) and statpar4 eq 2)
   cohabhis=1
*
* calculate periods when in partnership but where status is unknown
compute parthis=0
if sysmis(inp1) parthis=-9
if ((outp1 eq 0) and (inp1 le month) and (sysmis(statfpar) or statfpar eq
99))
   parthis=1
if ((outp1 ge 1) and (inp1 le month and outp1 gt month) and
(sysmis(statfpar)
   or statfpar eq 99)) parthis=1
if ((outp2 eq 0) and (inp2 le month) and (sysmis(statpar2) or statpar2 eq
99))
   parthis=1
if ((outp2 ge 1) and (inp2 le month and outp2 gt month) and
(sysmis(statpar2)
   or statpar2 eq 99)) parthis=1
if ((outp3 eq 0) and (inp3 le month) and (sysmis(statpar3) or statpar3 eq
99))
   parthis=1
if ((outp3 ge 1) and (inp3 le month and outp3 gt month) and
(sysmis(statpar3)
   or statpar3 eq 99)) parthis=1
if ((outp4 eq 0) and (inp4 le month) and (sysmis(statpar4) or statpar4 eq
99))
   parthis=1
if ((outp4 ge 1) and (inp4 le month and outp4 gt month) and
(sysmis(statpar4)
  or statpar4 eq 99)) parthis=1
*
missing values marhist cohabhis parthis (-9)
var labels marhist 'currently married'
val labels marhist 1 'yes' 0 'no'
var labels cohabhis 'currently cohabiting'
val labels cohabhis 1 'yes' 0 'no'
var labels parthis 'in partnership status unknown'
val labels parthis 1 'yes' 0 'no'
*
*
*
* calculate age of youngest child present each month (continous)
*
compute ageych=0
* do if wherkid1 eq 2 or wherkid1 eq 4
  do if ((month ge c1died) or (month ge c1lliv))
```

```
    compute nbirth1=mchild2
    compute nbirth2=mchild3
    compute nbirth3=mchild4
    compute nbirth4=mchild5
    compute nbirth5=mchild6
    compute nbirth6=mchild7
    compute nbirth7=mchild8
    compute nbirth8=mchild9
  end if
  if ((month eq c1died) or (month eq c1lliv)) totbth=totbth-1
*
  if ((month ge (nbirth1+192)) or (month ge (nbirth2+192)) or
   (month ge (nbirth3+192)) or (month ge (nbirth4+192)) or
   (month ge (nbirth5+192)) or (month ge (nbirth6+192)) or
   (month ge (nbirth7+192)) or (month ge (nbirth8+192)) or
   (month ge (nbirth9+192)))
   ageych=17
*
  if (month ge (nbirth1+180) and month le (nbirth1+191)) or
   (month ge (nbirth2+180) and month le (nbirth2+191)) or
   (month ge (nbirth3+180) and month le (nbirth3+191)) or
   (month ge (nbirth4+180) and month le (nbirth4+191)) or
   (month ge (nbirth5+180) and month le (nbirth5+191)) or
   (month ge (nbirth6+180) and month le (nbirth6+191)) or
   (month ge (nbirth7+180) and month le (nbirth7+191)) or
   (month ge (nbirth8+180) and month le (nbirth8+191)) or
   (month ge (nbirth9+180) and month le (nbirth9+191))
   ageych=16
*
  if (month ge (nbirth1+168) and month le (nbirth1+179)) or
   (month ge (nbirth2+168) and month le (nbirth2+179)) or
   (month ge (nbirth3+168) and month le (nbirth3+179)) or
   (month ge (nbirth4+168) and month le (nbirth4+179)) or
   (month ge (nbirth5+168) and month le (nbirth5+179)) or
   (month ge (nbirth6+168) and month le (nbirth6+179)) or
   (month ge (nbirth7+168) and month le (nbirth7+179)) or
   (month ge (nbirth8+168) and month le (nbirth8+179)) or
   (month ge (nbirth9+168) and month le (nbirth9+179))
   ageych=15
*
  if (month ge (nbirth1+156) and month le (nbirth1+167)) or
   (month ge (nbirth2+156) and month le (nbirth2+167)) or
   (month ge (nbirth3+156) and month le (nbirth3+167)) or
   (month ge (nbirth4+156) and month le (nbirth4+167)) or
   (month ge (nbirth5+156) and month le (nbirth5+167)) or
   (month ge (nbirth6+156) and month le (nbirth6+167)) or
   (month ge (nbirth7+156) and month le (nbirth7+167)) or
   (month ge (nbirth8+156) and month le (nbirth8+167)) or
   (month ge (nbirth9+156) and month le (nbirth9+167))
   ageych=14
*
  if (month ge (nbirth1+144) and month le (nbirth1+155)) or
   (month ge (nbirth2+144) and month le (nbirth2+155)) or
   (month ge (nbirth3+144) and month le (nbirth3+155)) or
   (month ge (nbirth4+144) and month le (nbirth4+155)) or
   (month ge (nbirth5+144) and month le (nbirth5+155)) or
   (month ge (nbirth6+144) and month le (nbirth6+155)) or
   (month ge (nbirth7+144) and month le (nbirth7+155)) or
   (month ge (nbirth8+144) and month le (nbirth8+155)) or
   (month ge (nbirth9+144) and month le (nbirth9+155))
   ageych=13
*
  if (month ge (nbirth1+132) and month le (nbirth1+143)) or
   (month ge (nbirth2+132) and month le (nbirth2+143)) or
   (month ge (nbirth3+132) and month le (nbirth3+143)) or
   (month ge (nbirth4+132) and month le (nbirth4+143)) or
   (month ge (nbirth5+132) and month le (nbirth5+143)) or
   (month ge (nbirth6+132) and month le (nbirth6+143)) or
```

```
     (month ge (nbirth7+132) and month le (nbirth7+143)) or
     (month ge (nbirth8+132) and month le (nbirth8+143)) or
     (month ge (nbirth9+132) and month le (nbirth9+143))
      ageych=12
*
   if (month ge (nbirth1+120) and month le (nbirth1+131)) or
     (month ge (nbirth2+120) and month le (nbirth2+131)) or
     (month ge (nbirth3+120) and month le (nbirth3+131)) or
     (month ge (nbirth4+120) and month le (nbirth4+131)) or
     (month ge (nbirth5+120) and month le (nbirth5+131)) or
     (month ge (nbirth6+120) and month le (nbirth6+131)) or
     (month ge (nbirth7+120) and month le (nbirth7+131)) or
     (month ge (nbirth8+120) and month le (nbirth8+131)) or
     (month ge (nbirth9+120) and month le (nbirth9+131))
      ageych=11
*
   if (month ge (nbirth1+108) and month le (nbirth1+119)) or
     (month ge (nbirth2+108) and month le (nbirth2+119)) or
     (month ge (nbirth3+108) and month le (nbirth3+119)) or
     (month ge (nbirth4+108) and month le (nbirth4+119)) or
     (month ge (nbirth5+108) and month le (nbirth5+119)) or
     (month ge (nbirth6+108) and month le (nbirth6+119)) or
     (month ge (nbirth7+108) and month le (nbirth7+119)) or
     (month ge (nbirth8+108) and month le (nbirth8+119)) or
     (month ge (nbirth9+108) and month le (nbirth9+119))
      ageych=10
*
   if (month ge (nbirth1+96) and month le (nbirth1+107)) or
     (month ge (nbirth2+96) and month le (nbirth2+107)) or
     (month ge (nbirth3+96) and month le (nbirth3+107)) or
     (month ge (nbirth4+96) and month le (nbirth4+107)) or
     (month ge (nbirth5+96) and month le (nbirth5+107)) or
     (month ge (nbirth6+96) and month le (nbirth6+107)) or
     (month ge (nbirth7+96) and month le (nbirth7+107)) or
     (month ge (nbirth8+96) and month le (nbirth8+107)) or
     (month ge (nbirth9+96) and month le (nbirth9+107))
      ageych=9
*
   if (month ge (nbirth1+84) and month le (nbirth1+95)) or
     (month ge (nbirth2+84) and month le (nbirth2+95)) or
     (month ge (nbirth3+84) and month le (nbirth3+95)) or
     (month ge (nbirth4+84) and month le (nbirth4+95)) or
     (month ge (nbirth5+84) and month le (nbirth5+95)) or
     (month ge (nbirth6+84) and month le (nbirth6+95)) or
     (month ge (nbirth7+84) and month le (nbirth7+95)) or
     (month ge (nbirth8+84) and month le (nbirth8+95)) or
     (month ge (nbirth9+84) and month le (nbirth9+95))
      ageych=8
*
   if (month ge (nbirth1+72) and month le (nbirth1+83)) or
     (month ge (nbirth2+72) and month le (nbirth2+83)) or
     (month ge (nbirth3+72) and month le (nbirth3+83)) or
     (month ge (nbirth4+72) and month le (nbirth4+83)) or
     (month ge (nbirth5+72) and month le (nbirth5+83)) or
     (month ge (nbirth6+72) and month le (nbirth6+83)) or
     (month ge (nbirth7+72) and month le (nbirth7+83)) or
     (month ge (nbirth8+72) and month le (nbirth8+83)) or
     (month ge (nbirth9+72) and month le (nbirth9+83))
      ageych=7
*
   if (month ge (nbirth1+60) and month le (nbirth1+71)) or
     (month ge (nbirth2+60) and month le (nbirth2+71)) or
     (month ge (nbirth3+60) and month le (nbirth3+71)) or
     (month ge (nbirth4+60) and month le (nbirth4+71)) or
     (month ge (nbirth5+60) and month le (nbirth5+71)) or
     (month ge (nbirth6+60) and month le (nbirth6+71)) or
     (month ge (nbirth7+60) and month le (nbirth7+71)) or
     (month ge (nbirth8+60) and month le (nbirth8+71)) or
```

```
    (month ge (nbirth9+60) and month le (nbirth9+71))
     ageych=6
*
  if (month ge (nbirth1+48) and month le (nbirth1+59)) or
   (month ge (nbirth2+48) and month le (nbirth2+59)) or
   (month ge (nbirth3+48) and month le (nbirth3+59)) or
   (month ge (nbirth4+48) and month le (nbirth4+59)) or
   (month ge (nbirth5+48) and month le (nbirth5+59)) or
   (month ge (nbirth6+48) and month le (nbirth6+59)) or
   (month ge (nbirth7+48) and month le (nbirth7+59)) or
   (month ge (nbirth8+48) and month le (nbirth8+59)) or
   (month ge (nbirth9+48) and month le (nbirth9+59))
    ageych=5
*
  if (month ge (nbirth1+36) and month le (nbirth1+47)) or
   (month ge (nbirth2+36) and month le (nbirth2+47)) or
   (month ge (nbirth3+36) and month le (nbirth3+47)) or
   (month ge (nbirth4+36) and month le (nbirth4+47)) or
   (month ge (nbirth5+36) and month le (nbirth5+47)) or
   (month ge (nbirth6+36) and month le (nbirth6+47)) or
   (month ge (nbirth7+36) and month le (nbirth7+47)) or
   (month ge (nbirth8+36) and month le (nbirth8+47)) or
   (month ge (nbirth9+36) and month le (nbirth9+47))
    ageych=4
*
  if (month ge (nbirth1+24) and month le (nbirth1+35)) or
   (month ge (nbirth2+24) and month le (nbirth2+35)) or
   (month ge (nbirth3+24) and month le (nbirth3+35)) or
   (month ge (nbirth4+24) and month le (nbirth4+35)) or
   (month ge (nbirth5+24) and month le (nbirth5+35)) or
   (month ge (nbirth6+24) and month le (nbirth6+35)) or
   (month ge (nbirth7+24) and month le (nbirth7+35)) or
   (month ge (nbirth8+24) and month le (nbirth8+35)) or
   (month ge (nbirth9+24) and month le (nbirth9+35))
    ageych=3
*
  if (month ge (nbirth1+12) and month le (nbirth1+23)) or
   (month ge (nbirth2+12) and month le (nbirth2+23)) or
   (month ge (nbirth3+12) and month le (nbirth3+23)) or
   (month ge (nbirth4+12) and month le (nbirth4+23)) or
   (month ge (nbirth5+12) and month le (nbirth5+23)) or
   (month ge (nbirth6+12) and month le (nbirth6+23)) or
   (month ge (nbirth7+12) and month le (nbirth7+23)) or
   (month ge (nbirth8+12) and month le (nbirth8+23)) or
   (month ge (nbirth9+12) and month le (nbirth9+23))
    ageych=2
*
  if ((month ge nbirth1 and month le (nbirth1+11)) or
   (month ge nbirth2 and month le (nbirth2+11)) or
   (month ge nbirth3 and month le (nbirth3+11)) or
   (month ge nbirth4 and month le (nbirth4+11)) or
   (month ge nbirth5 and month le (nbirth5+11)) or
   (month ge nbirth6 and month ge (nbirth6+11)) or
   (month ge nbirth7 and month ge (nbirth7+11)) or
   (month ge nbirth8 and month le (nbirth8+11)) or
   (month ge nbirth9 and month le (nbirth9+11)))
    ageych=1
end if
*
do if wherkid2 eq 2 or wherkid2 eq 4
  do if ((month ge c2died) or (month ge c2lliv))
    compute nbirth2=mchild3
    compute nbirth3=mchild4
    compute nbirth4=mchild5
    compute nbirth5=mchild6
    compute nbirth6=mchild7
    compute nbirth7=mchild8
    compute nbirth8=mchild9
```

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    end if
    if ((month eq c2died) or (month eq c2lliv)) totbth=totbth-1
*
    if ((month ge (nbirth1+192)) or (month ge (nbirth2+192)) or
     (month ge (nbirth3+192)) or (month ge (nbirth4+192)) or
     (month ge (nbirth5+192)) or (month ge (nbirth6+192)) or
     (month ge (nbirth7+192)) or (month ge (nbirth8+192)) or
     (month ge (nbirth9+192)))
     ageych=17
*
    if (month ge (nbirth1+180) and month le (nbirth1+191)) or
     (month ge (nbirth2+180) and month le (nbirth2+191)) or
     (month ge (nbirth3+180) and month le (nbirth3+191)) or
     (month ge (nbirth4+180) and month le (nbirth4+191)) or
     (month ge (nbirth5+180) and month le (nbirth5+191)) or
     (month ge (nbirth6+180) and month le (nbirth6+191)) or
     (month ge (nbirth7+180) and month le (nbirth7+191)) or
     (month ge (nbirth8+180) and month le (nbirth8+191)) or
     (month ge (nbirth9+180) and month le (nbirth9+191))
     ageych=16
*
    if (month ge (nbirth1+168) and month le (nbirth1+179)) or
     (month ge (nbirth2+168) and month le (nbirth2+179)) or
     (month ge (nbirth3+168) and month le (nbirth3+179)) or
     (month ge (nbirth4+168) and month le (nbirth4+179)) or
     (month ge (nbirth5+168) and month le (nbirth5+179)) or
     (month ge (nbirth6+168) and month le (nbirth6+179)) or
     (month ge (nbirth7+168) and month le (nbirth7+179)) or
     (month ge (nbirth8+168) and month le (nbirth8+179)) or
     (month ge (nbirth9+168) and month le (nbirth9+179))
     ageych=15
*
    if (month ge (nbirth1+156) and month le (nbirth1+167)) or
     (month ge (nbirth2+156) and month le (nbirth2+167)) or
     (month ge (nbirth3+156) and month le (nbirth3+167)) or
     (month ge (nbirth4+156) and month le (nbirth4+167)) or
     (month ge (nbirth5+156) and month le (nbirth5+167)) or
     (month ge (nbirth6+156) and month le (nbirth6+167)) or
     (month ge (nbirth7+156) and month le (nbirth7+167)) or
     (month ge (nbirth8+156) and month le (nbirth8+167)) or
     (month ge (nbirth9+156) and month le (nbirth9+167))
     ageych=14
*
    if (month ge (nbirth1+144) and month le (nbirth1+155)) or
     (month ge (nbirth2+144) and month le (nbirth2+155)) or
     (month ge (nbirth3+144) and month le (nbirth3+155)) or
     (month ge (nbirth4+144) and month le (nbirth4+155)) or
     (month ge (nbirth5+144) and month le (nbirth5+155)) or
     (month ge (nbirth6+144) and month le (nbirth6+155)) or
     (month ge (nbirth7+144) and month le (nbirth7+155)) or
     (month ge (nbirth8+144) and month le (nbirth8+155)) or
     (month ge (nbirth9+144) and month le (nbirth9+155))
     ageych=13
*
    if (month ge (nbirth1+132) and month le (nbirth1+143)) or
     (month ge (nbirth2+132) and month le (nbirth2+143)) or
     (month ge (nbirth3+132) and month le (nbirth3+143)) or
     (month ge (nbirth4+132) and month le (nbirth4+143)) or
     (month ge (nbirth5+132) and month le (nbirth5+143)) or
     (month ge (nbirth6+132) and month le (nbirth6+143)) or
     (month ge (nbirth7+132) and month le (nbirth7+143)) or
     (month ge (nbirth8+132) and month le (nbirth8+143)) or
     (month ge (nbirth9+132) and month le (nbirth9+143))
     ageych=12
*
    if (month ge (nbirth1+120) and month le (nbirth1+131)) or
     (month ge (nbirth2+120) and month le (nbirth2+131)) or
     (month ge (nbirth3+120) and month le (nbirth3+131)) or
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(month ge (nbirth4+120) and month le (nbirth4+131)) or
(month ge (nbirth5+120) and month le (nbirth5+131)) or
(month ge (nbirth6+120) and month le (nbirth6+131)) or
(month ge (nbirth7+120) and month le (nbirth7+131)) or
(month ge (nbirth8+120) and month le (nbirth8+131)) or
(month ge (nbirth9+120) and month le (nbirth9+131))
 ageych=11
*
 if (month ge (nbirth1+108) and month le (nbirth1+119)) or
 (month ge (nbirth2+108) and month le (nbirth2+119)) or
 (month ge (nbirth3+108) and month le (nbirth3+119)) or
 (month ge (nbirth4+108) and month le (nbirth4+119)) or
 (month ge (nbirth5+108) and month le (nbirth5+119)) or
 (month ge (nbirth6+108) and month le (nbirth6+119)) or
 (month ge (nbirth7+108) and month le (nbirth7+119)) or
 (month ge (nbirth8+108) and month le (nbirth8+119)) or
 (month ge (nbirth9+108) and month le (nbirth9+119))
 ageych=10
*
 if (month ge (nbirth1+96) and month le (nbirth1+107)) or
 (month ge (nbirth2+96) and month le (nbirth2+107)) or
 (month ge (nbirth3+96) and month le (nbirth3+107)) or
 (month ge (nbirth4+96) and month le (nbirth4+107)) or
 (month ge (nbirth5+96) and month le (nbirth5+107)) or
 (month ge (nbirth6+96) and month le (nbirth6+107)) or
 (month ge (nbirth7+96) and month le (nbirth7+107)) or
 (month ge (nbirth8+96) and month le (nbirth8+107)) or
 (month ge (nbirth9+96) and month le (nbirth9+107))
 ageych=9
*
 if (month ge (nbirth1+84) and month le (nbirth1+95)) or
 (month ge (nbirth2+84) and month le (nbirth2+95)) or
 (month ge (nbirth3+84) and month le (nbirth3+95)) or
 (month ge (nbirth4+84) and month le (nbirth4+95)) or
 (month ge (nbirth5+84) and month le (nbirth5+95)) or
 (month ge (nbirth6+84) and month le (nbirth6+95)) or
 (month ge (nbirth7+84) and month le (nbirth7+95)) or
 (month ge (nbirth8+84) and month le (nbirth8+95)) or
 (month ge (nbirth9+84) and month le (nbirth9+95))
 ageych=8
*
 if (month ge (nbirth1+72) and month le (nbirth1+83)) or
 (month ge (nbirth2+72) and month le (nbirth2+83)) or
 (month ge (nbirth3+72) and month le (nbirth3+83)) or
 (month ge (nbirth4+72) and month le (nbirth4+83)) or
 (month ge (nbirth5+72) and month le (nbirth5+83)) or
 (month ge (nbirth6+72) and month le (nbirth6+83)) or
 (month ge (nbirth7+72) and month le (nbirth7+83)) or
 (month ge (nbirth8+72) and month le (nbirth8+83)) or
 (month ge (nbirth9+72) and month le (nbirth9+83))
 ageych=7
*
 if (month ge (nbirth1+60) and month le (nbirth1+71)) or
 (month ge (nbirth2+60) and month le (nbirth2+71)) or
 (month ge (nbirth3+60) and month le (nbirth3+71)) or
 (month ge (nbirth4+60) and month le (nbirth4+71)) or
 (month ge (nbirth5+60) and month le (nbirth5+71)) or
 (month ge (nbirth6+60) and month le (nbirth6+71)) or
 (month ge (nbirth7+60) and month le (nbirth7+71)) or
 (month ge (nbirth8+60) and month le (nbirth8+71)) or
 (month ge (nbirth9+60) and month le (nbirth9+71))
 ageych=6
*
 if (month ge (nbirth1+48) and month le (nbirth1+59)) or
 (month ge (nbirth2+48) and month le (nbirth2+59)) or
 (month ge (nbirth3+48) and month le (nbirth3+59)) or
 (month ge (nbirth4+48) and month le (nbirth4+59)) or
 (month ge (nbirth5+48) and month le (nbirth5+59)) or
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   (month ge (nbirth6+48) and month le (nbirth6+59)) or
   (month ge (nbirth7+48) and month le (nbirth7+59)) or
   (month ge (nbirth8+48) and month le (nbirth8+59)) or
   (month ge (nbirth9+48) and month le (nbirth9+59))
    ageych=5
*
  if (month ge (nbirth1+36) and month le (nbirth1+47)) or
   (month ge (nbirth2+36) and month le (nbirth2+47)) or
   (month ge (nbirth3+36) and month le (nbirth3+47)) or
   (month ge (nbirth4+36) and month le (nbirth4+47)) or
   (month ge (nbirth5+36) and month le (nbirth5+47)) or
   (month ge (nbirth6+36) and month le (nbirth6+47)) or
   (month ge (nbirth7+36) and month le (nbirth7+47)) or
   (month ge (nbirth8+36) and month le (nbirth8+47)) or
   (month ge (nbirth9+36) and month le (nbirth9+47))
    ageych=4
*
  if (month ge (nbirth1+24) and month le (nbirth1+35)) or
   (month ge (nbirth2+24) and month le (nbirth2+35)) or
   (month ge (nbirth3+24) and month le (nbirth3+35)) or
   (month ge (nbirth4+24) and month le (nbirth4+35)) or
   (month ge (nbirth5+24) and month le (nbirth5+35)) or
   (month ge (nbirth6+24) and month le (nbirth6+35)) or
   (month ge (nbirth7+24) and month le (nbirth7+35)) or
   (month ge (nbirth8+24) and month le (nbirth8+35)) or
   (month ge (nbirth9+24) and month le (nbirth9+35))
    ageych=3
*
  if (month ge (nbirth1+12) and month le (nbirth1+23)) or
   (month ge (nbirth2+12) and month le (nbirth2+23)) or
   (month ge (nbirth3+12) and month le (nbirth3+23)) or
   (month ge (nbirth4+12) and month le (nbirth4+23)) or
   (month ge (nbirth5+12) and month le (nbirth5+23)) or
   (month ge (nbirth6+12) and month le (nbirth6+23)) or
   (month ge (nbirth7+12) and month le (nbirth7+23)) or
   (month ge (nbirth8+12) and month le (nbirth8+23)) or
   (month ge (nbirth9+12) and month le (nbirth9+23))
    ageych=2
*
  if ((month ge nbirth1 and month le (nbirth1+11)) or
   (month ge nbirth2 and month le (nbirth2+11)) or
   (month ge nbirth3 and month le (nbirth3+11)) or
   (month ge nbirth4 and month le (nbirth4+11)) or
   (month ge nbirth5 and month le (nbirth5+11)) or
   (month ge nbirth6 and month ge (nbirth6+11)) or
   (month ge nbirth7 and month ge (nbirth7+11)) or
   (month ge nbirth8 and month le (nbirth8+11)) or
   (month ge nbirth9 and month le (nbirth9+11)))
    ageych=1
end if
*
do if wherkid3 eq 2 or wherkid3 eq 4
  do if ((month ge c3died) or (month ge c3lliv))
    compute nbirth3=mchild4
    compute nbirth4=mchild5
    compute nbirth5=mchild6
    compute nbirth6=mchild7
    compute nbirth7=mchild8
    compute nbirth8=mchild9
  end if
  if ((month eq c3died) or (month eq c3lliv)) totbth=totbth-1
*
  if ((month ge (nbirth1+192)) or (month ge (nbirth2+192)) or
   (month ge (nbirth3+192)) or (month ge (nbirth4+192)) or
   (month ge (nbirth5+192)) or (month ge (nbirth6+192)) or
   (month ge (nbirth7+192)) or (month ge (nbirth8+192)) or
   (month ge (nbirth9+192)))
    ageych=17
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*
  if (month ge (nbirth1+180) and month le (nbirth1+191)) or
   (month ge (nbirth2+180) and month le (nbirth2+191)) or
   (month ge (nbirth3+180) and month le (nbirth3+191)) or
   (month ge (nbirth4+180) and month le (nbirth4+191)) or
   (month ge (nbirth5+180) and month le (nbirth5+191)) or
   (month ge (nbirth6+180) and month le (nbirth6+191)) or
   (month ge (nbirth7+180) and month le (nbirth7+191)) or
   (month ge (nbirth8+180) and month le (nbirth8+191)) or
   (month ge (nbirth9+180) and month le (nbirth9+191))
   ageych=16
*
  if (month ge (nbirth1+168) and month le (nbirth1+179)) or
   (month ge (nbirth2+168) and month le (nbirth2+179)) or
   (month ge (nbirth3+168) and month le (nbirth3+179)) or
   (month ge (nbirth4+168) and month le (nbirth4+179)) or
   (month ge (nbirth5+168) and month le (nbirth5+179)) or
   (month ge (nbirth6+168) and month le (nbirth6+179)) or
   (month ge (nbirth7+168) and month le (nbirth7+179)) or
   (month ge (nbirth8+168) and month le (nbirth8+179)) or
   (month ge (nbirth9+168) and month le (nbirth9+179))
   ageych=15
*
  if (month ge (nbirth1+156) and month le (nbirth1+167)) or
   (month ge (nbirth2+156) and month le (nbirth2+167)) or
   (month ge (nbirth3+156) and month le (nbirth3+167)) or
   (month ge (nbirth4+156) and month le (nbirth4+167)) or
   (month ge (nbirth5+156) and month le (nbirth5+167)) or
   (month ge (nbirth6+156) and month le (nbirth6+167)) or
   (month ge (nbirth7+156) and month le (nbirth7+167)) or
   (month ge (nbirth8+156) and month le (nbirth8+167)) or
   (month ge (nbirth9+156) and month le (nbirth9+167))
   ageych=14
*
  if (month ge (nbirth1+144) and month le (nbirth1+155)) or
   (month ge (nbirth2+144) and month le (nbirth2+155)) or
   (month ge (nbirth3+144) and month le (nbirth3+155)) or
   (month ge (nbirth4+144) and month le (nbirth4+155)) or
   (month ge (nbirth5+144) and month le (nbirth5+155)) or
   (month ge (nbirth6+144) and month le (nbirth6+155)) or
   (month ge (nbirth7+144) and month le (nbirth7+155)) or
   (month ge (nbirth8+144) and month le (nbirth8+155)) or
   (month ge (nbirth9+144) and month le (nbirth9+155))
   ageych=13
*
  if (month ge (nbirth1+132) and month le (nbirth1+143)) or
   (month ge (nbirth2+132) and month le (nbirth2+143)) or
   (month ge (nbirth3+132) and month le (nbirth3+143)) or
   (month ge (nbirth4+132) and month le (nbirth4+143)) or
   (month ge (nbirth5+132) and month le (nbirth5+143)) or
   (month ge (nbirth6+132) and month le (nbirth6+143)) or
   (month ge (nbirth7+132) and month le (nbirth7+143)) or
   (month ge (nbirth8+132) and month le (nbirth8+143)) or
   (month ge (nbirth9+132) and month le (nbirth9+143))
   ageych=12
*
  if (month ge (nbirth1+120) and month le (nbirth1+131)) or
   (month ge (nbirth2+120) and month le (nbirth2+131)) or
   (month ge (nbirth3+120) and month le (nbirth3+131)) or
   (month ge (nbirth4+120) and month le (nbirth4+131)) or
   (month ge (nbirth5+120) and month le (nbirth5+131)) or
   (month ge (nbirth6+120) and month le (nbirth6+131)) or
   (month ge (nbirth7+120) and month le (nbirth7+131)) or
   (month ge (nbirth8+120) and month le (nbirth8+131)) or
   (month ge (nbirth9+120) and month le (nbirth9+131))
   ageych=11
*
  if (month ge (nbirth1+108) and month le (nbirth1+119)) or
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     (month ge (nbirth2+108) and month le (nbirth2+119)) or
     (month ge (nbirth3+108) and month le (nbirth3+119)) or
     (month ge (nbirth4+108) and month le (nbirth4+119)) or
     (month ge (nbirth5+108) and month le (nbirth5+119)) or
     (month ge (nbirth6+108) and month le (nbirth6+119)) or
     (month ge (nbirth7+108) and month le (nbirth7+119)) or
     (month ge (nbirth8+108) and month le (nbirth8+119)) or
     (month ge (nbirth9+108) and month le (nbirth9+119))
      ageych=10
*
   if (month ge (nbirth1+96) and month le (nbirth1+107)) or
     (month ge (nbirth2+96) and month le (nbirth2+107)) or
     (month ge (nbirth3+96) and month le (nbirth3+107)) or
     (month ge (nbirth4+96) and month le (nbirth4+107)) or
     (month ge (nbirth5+96) and month le (nbirth5+107)) or
     (month ge (nbirth6+96) and month le (nbirth6+107)) or
     (month ge (nbirth7+96) and month le (nbirth7+107)) or
     (month ge (nbirth8+96) and month le (nbirth8+107)) or
     (month ge (nbirth9+96) and month le (nbirth9+107))
      ageych=9
*
   if (month ge (nbirth1+84) and month le (nbirth1+95)) or
     (month ge (nbirth2+84) and month le (nbirth2+95)) or
     (month ge (nbirth3+84) and month le (nbirth3+95)) or
     (month ge (nbirth4+84) and month le (nbirth4+95)) or
     (month ge (nbirth5+84) and month le (nbirth5+95)) or
     (month ge (nbirth6+84) and month le (nbirth6+95)) or
     (month ge (nbirth7+84) and month le (nbirth7+95)) or
     (month ge (nbirth8+84) and month le (nbirth8+95)) or
     (month ge (nbirth9+84) and month le (nbirth9+95))
      ageych=8
*
   if (month ge (nbirth1+72) and month le (nbirth1+83)) or
     (month ge (nbirth2+72) and month le (nbirth2+83)) or
     (month ge (nbirth3+72) and month le (nbirth3+83)) or
     (month ge (nbirth4+72) and month le (nbirth4+83)) or
     (month ge (nbirth5+72) and month le (nbirth5+83)) or
     (month ge (nbirth6+72) and month le (nbirth6+83)) or
     (month ge (nbirth7+72) and month le (nbirth7+83)) or
     (month ge (nbirth8+72) and month le (nbirth8+83)) or
     (month ge (nbirth9+72) and month le (nbirth9+83))
      ageych=7
*
   if (month ge (nbirth1+60) and month le (nbirth1+71)) or
     (month ge (nbirth2+60) and month le (nbirth2+71)) or
     (month ge (nbirth3+60) and month le (nbirth3+71)) or
     (month ge (nbirth4+60) and month le (nbirth4+71)) or
     (month ge (nbirth5+60) and month le (nbirth5+71)) or
     (month ge (nbirth6+60) and month le (nbirth6+71)) or
     (month ge (nbirth7+60) and month le (nbirth7+71)) or
     (month ge (nbirth8+60) and month le (nbirth8+71)) or
     (month ge (nbirth9+60) and month le (nbirth9+71))
      ageych=6
*
   if (month ge (nbirth1+48) and month le (nbirth1+59)) or
     (month ge (nbirth2+48) and month le (nbirth2+59)) or
     (month ge (nbirth3+48) and month le (nbirth3+59)) or
     (month ge (nbirth4+48) and month le (nbirth4+59)) or
     (month ge (nbirth5+48) and month le (nbirth5+59)) or
     (month ge (nbirth6+48) and month le (nbirth6+59)) or
     (month ge (nbirth7+48) and month le (nbirth7+59)) or
     (month ge (nbirth8+48) and month le (nbirth8+59)) or
     (month ge (nbirth9+48) and month le (nbirth9+59))
      ageych=5
*
   if (month ge (nbirth1+36) and month le (nbirth1+47)) or
     (month ge (nbirth2+36) and month le (nbirth2+47)) or
     (month ge (nbirth3+36) and month le (nbirth3+47)) or
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         (month ge (nbirth4+36) and month le (nbirth4+47)) or
         (month ge (nbirth5+36) and month le (nbirth5+47)) or
         (month ge (nbirth6+36) and month le (nbirth6+47)) or
         (month ge (nbirth7+36) and month le (nbirth7+47)) or
         (month ge (nbirth8+36) and month le (nbirth8+47)) or
         (month ge (nbirth9+36) and month le (nbirth9+47))
       ageych=4
*
     if (month ge (nbirth1+24) and month le (nbirth1+35)) or
       (month ge (nbirth2+24) and month le (nbirth2+35)) or
       (month ge (nbirth3+24) and month le (nbirth3+35)) or
       (month ge (nbirth4+24) and month le (nbirth4+35)) or
       (month ge (nbirth5+24) and month le (nbirth5+35)) or
       (month ge (nbirth6+24) and month le (nbirth6+35)) or
       (month ge (nbirth7+24) and month le (nbirth7+35)) or
       (month ge (nbirth8+24) and month le (nbirth8+35)) or
       (month ge (nbirth9+24) and month le (nbirth9+35))
       ageych=3
*
     if (month ge (nbirth1+12) and month le (nbirth1+23)) or
       (month ge (nbirth2+12) and month le (nbirth2+23)) or
       (month ge (nbirth3+12) and month le (nbirth3+23)) or
       (month ge (nbirth4+12) and month le (nbirth4+23)) or
       (month ge (nbirth5+12) and month le (nbirth5+23)) or
       (month ge (nbirth6+12) and month le (nbirth6+23)) or
       (month ge (nbirth7+12) and month le (nbirth7+23)) or
       (month ge (nbirth8+12) and month le (nbirth8+23)) or
       (month ge (nbirth9+12) and month le (nbirth9+23))
       ageych=2
*
     if ((month ge nbirth1 and month le (nbirth1+11)) or
       (month ge nbirth2 and month le (nbirth2+11)) or
       (month ge nbirth3 and month le (nbirth3+11)) or
       (month ge nbirth4 and month le (nbirth4+11)) or
       (month ge nbirth5 and month le (nbirth5+11)) or
       (month ge nbirth6 and month ge (nbirth6+11)) or
       (month ge nbirth7 and month ge (nbirth7+11)) or
       (month ge nbirth8 and month le (nbirth8+11)) or
       (month ge nbirth9 and month le (nbirth9+11)))
       ageych=1
*
end if
*
do if wherkid6 eq 2 or wherkid6 eq 4
   do if ((month ge c6died) or (month ge c6lliv))
      compute nbirth6=mchild7
      compute nbirth7=mchild8
      compute nbirth8=mchild9
   end if
   if ((month eq c6died) or month eq (c6lliv)) totbth=totbth-1
*
   if ((month ge (nbirth1+192)) or (month ge (nbirth2+192)) or
     (month ge (nbirth3+192)) or (month ge (nbirth4+192)) or
     (month ge (nbirth5+192)) or (month ge (nbirth6+192)) or
     (month ge (nbirth7+192)) or (month ge (nbirth8+192)) or
     (month ge (nbirth9+192)))
     ageych=17
*
   if (month ge (nbirth1+180) and month le (nbirth1+191)) or
     (month ge (nbirth2+180) and month le (nbirth2+191)) or
     (month ge (nbirth3+180) and month le (nbirth3+191)) or
     (month ge (nbirth4+180) and month le (nbirth4+191)) or
     (month ge (nbirth5+180) and month le (nbirth5+191)) or
     (month ge (nbirth6+180) and month le (nbirth6+191)) or
     (month ge (nbirth7+180) and month le (nbirth7+191)) or
     (month ge (nbirth8+180) and month le (nbirth8+191)) or
     (month ge (nbirth9+180) and month le (nbirth9+191))
     ageych=16
```

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*
  if (month ge (nbirth1+168) and month le (nbirth1+179)) or
   (month ge (nbirth2+168) and month le (nbirth2+179)) or
   (month ge (nbirth3+168) and month le (nbirth3+179)) or
   (month ge (nbirth4+168) and month le (nbirth4+179)) or
   (month ge (nbirth5+168) and month le (nbirth5+179)) or
   (month ge (nbirth6+168) and month le (nbirth6+179)) or
   (month ge (nbirth7+168) and month le (nbirth7+179)) or
   (month ge (nbirth8+168) and month le (nbirth8+179)) or
   (month ge (nbirth9+168) and month le (nbirth9+179))
   ageych=15
*
  if (month ge (nbirth1+156) and month le (nbirth1+167)) or
   (month ge (nbirth2+156) and month le (nbirth2+167)) or
   (month ge (nbirth3+156) and month le (nbirth3+167)) or
   (month ge (nbirth4+156) and month le (nbirth4+167)) or
   (month ge (nbirth5+156) and month le (nbirth5+167)) or
   (month ge (nbirth6+156) and month le (nbirth6+167)) or
   (month ge (nbirth7+156) and month le (nbirth7+167)) or
   (month ge (nbirth8+156) and month le (nbirth8+167)) or
   (month ge (nbirth9+156) and month le (nbirth9+167))
   ageych=14
*
  if (month ge (nbirth1+144) and month le (nbirth1+155)) or
   (month ge (nbirth2+144) and month le (nbirth2+155)) or
   (month ge (nbirth3+144) and month le (nbirth3+155)) or
   (month ge (nbirth4+144) and month le (nbirth4+155)) or
   (month ge (nbirth5+144) and month le (nbirth5+155)) or
   (month ge (nbirth6+144) and month le (nbirth6+155)) or
   (month ge (nbirth7+144) and month le (nbirth7+155)) or
   (month ge (nbirth8+144) and month le (nbirth8+155)) or
   (month ge (nbirth9+144) and month le (nbirth9+155))
   ageych=13
*
  if (month ge (nbirth1+132) and month le (nbirth1+143)) or
   (month ge (nbirth2+132) and month le (nbirth2+143)) or
   (month ge (nbirth3+132) and month le (nbirth3+143)) or
   (month ge (nbirth4+132) and month le (nbirth4+143)) or
   (month ge (nbirth5+132) and month le (nbirth5+143)) or
   (month ge (nbirth6+132) and month le (nbirth6+143)) or
   (month ge (nbirth7+132) and month le (nbirth7+143)) or
   (month ge (nbirth8+132) and month le (nbirth8+143)) or
   (month ge (nbirth9+132) and month le (nbirth9+143))
   ageych=12
*
  if (month ge (nbirth1+120) and month le (nbirth1+131)) or
   (month ge (nbirth2+120) and month le (nbirth2+131)) or
   (month ge (nbirth3+120) and month le (nbirth3+131)) or
   (month ge (nbirth4+120) and month le (nbirth4+131)) or
   (month ge (nbirth5+120) and month le (nbirth5+131)) or
   (month ge (nbirth6+120) and month le (nbirth6+131)) or
   (month ge (nbirth7+120) and month le (nbirth7+131)) or
   (month ge (nbirth8+120) and month le (nbirth8+131)) or
   (month ge (nbirth9+120) and month le (nbirth9+131))
   ageych=11
*
  if (month ge (nbirth1+108) and month le (nbirth1+119)) or
   (month ge (nbirth2+108) and month le (nbirth2+119)) or
   (month ge (nbirth3+108) and month le (nbirth3+119)) or
   (month ge (nbirth4+108) and month le (nbirth4+119)) or
   (month ge (nbirth5+108) and month le (nbirth5+119)) or
   (month ge (nbirth6+108) and month le (nbirth6+119)) or
   (month ge (nbirth7+108) and month le (nbirth7+119)) or
   (month ge (nbirth8+108) and month le (nbirth8+119)) or
   (month ge (nbirth9+108) and month le (nbirth9+119))
   ageych=10
*
  if (month ge (nbirth1+96) and month le (nbirth1+107)) or
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       (month ge (nbirth2+96) and month le (nbirth2+107)) or
       (month ge (nbirth3+96) and month le (nbirth3+107)) or
       (month ge (nbirth4+96) and month le (nbirth4+107)) or
       (month ge (nbirth5+96) and month le (nbirth5+107)) or
       (month ge (nbirth6+96) and month le (nbirth6+107)) or
       (month ge (nbirth7+96) and month le (nbirth7+107)) or
       (month ge (nbirth8+96) and month le (nbirth8+107)) or
       (month ge (nbirth9+96) and month le (nbirth9+107))
        ageych=9
*
   if (month ge (nbirth1+84) and month le (nbirth1+95)) or
       (month ge (nbirth2+84) and month le (nbirth2+95)) or
       (month ge (nbirth3+84) and month le (nbirth3+95)) or
       (month ge (nbirth4+84) and month le (nbirth4+95)) or
       (month ge (nbirth5+84) and month le (nbirth5+95)) or
       (month ge (nbirth6+84) and month le (nbirth6+95)) or
       (month ge (nbirth7+84) and month le (nbirth7+95)) or
       (month ge (nbirth8+84) and month le (nbirth8+95)) or
       (month ge (nbirth9+84) and month le (nbirth9+95))
        ageych=8
*
   if (month ge (nbirth1+72) and month le (nbirth1+83)) or
       (month ge (nbirth2+72) and month le (nbirth2+83)) or
       (month ge (nbirth3+72) and month le (nbirth3+83)) or
       (month ge (nbirth4+72) and month le (nbirth4+83)) or
       (month ge (nbirth5+72) and month le (nbirth5+83)) or
       (month ge (nbirth6+72) and month le (nbirth6+83)) or
       (month ge (nbirth7+72) and month le (nbirth7+83)) or
       (month ge (nbirth8+72) and month le (nbirth8+83)) or
       (month ge (nbirth9+72) and month le (nbirth9+83))
        ageych=7
*
   if (month ge (nbirth1+60) and month le (nbirth1+71)) or
       (month ge (nbirth2+60) and month le (nbirth2+71)) or
       (month ge (nbirth3+60) and month le (nbirth3+71)) or
       (month ge (nbirth4+60) and month le (nbirth4+71)) or
       (month ge (nbirth5+60) and month le (nbirth5+71)) or
       (month ge (nbirth6+60) and month le (nbirth6+71)) or
       (month ge (nbirth7+60) and month le (nbirth7+71)) or
       (month ge (nbirth8+60) and month le (nbirth8+71)) or
       (month ge (nbirth9+60) and month le (nbirth9+71))
        ageych=6
*
   if (month ge (nbirth1+48) and month le (nbirth1+59)) or
       (month ge (nbirth2+48) and month le (nbirth2+59)) or
       (month ge (nbirth3+48) and month le (nbirth3+59)) or
       (month ge (nbirth4+48) and month le (nbirth4+59)) or
       (month ge (nbirth5+48) and month le (nbirth5+59)) or
       (month ge (nbirth6+48) and month le (nbirth6+59)) or
       (month ge (nbirth7+48) and month le (nbirth7+59)) or
       (month ge (nbirth8+48) and month le (nbirth8+59)) or
       (month ge (nbirth9+48) and month le (nbirth9+59))
        ageych=5
*
   if (month ge (nbirth1+36) and month le (nbirth1+47)) or
       (month ge (nbirth2+36) and month le (nbirth2+47)) or
       (month ge (nbirth3+36) and month le (nbirth3+47)) or
       (month ge (nbirth4+36) and month le (nbirth4+47)) or
       (month ge (nbirth5+36) and month le (nbirth5+47)) or
       (month ge (nbirth6+36) and month le (nbirth6+47)) or
       (month ge (nbirth7+36) and month le (nbirth7+47)) or
       (month ge (nbirth8+36) and month le (nbirth8+47)) or
       (month ge (nbirth9+36) and month le (nbirth9+47))
        ageych=4
*
   if (month ge (nbirth1+24) and month le (nbirth1+35)) or
       (month ge (nbirth2+24) and month le (nbirth2+35)) or
       (month ge (nbirth3+24) and month le (nbirth3+35)) or
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     (month ge (nbirth4+24) and month le (nbirth4+35)) or
     (month ge (nbirth5+24) and month le (nbirth5+35)) or
     (month ge (nbirth6+24) and month le (nbirth6+35)) or
     (month ge (nbirth7+24) and month le (nbirth7+35)) or
     (month ge (nbirth8+24) and month le (nbirth8+35)) or
     (month ge (nbirth9+24) and month le (nbirth9+35))
     ageych=3
*
  if (month ge (nbirth1+12) and month le (nbirth1+23)) or
     (month ge (nbirth2+12) and month le (nbirth2+23)) or
     (month ge (nbirth3+12) and month le (nbirth3+23)) or
     (month ge (nbirth4+12) and month le (nbirth4+23)) or
     (month ge (nbirth5+12) and month le (nbirth5+23)) or
     (month ge (nbirth6+12) and month le (nbirth6+23)) or
     (month ge (nbirth7+12) and month le (nbirth7+23)) or
     (month ge (nbirth8+12) and month le (nbirth8+23)) or
     (month ge (nbirth9+12) and month le (nbirth9+23))
     ageych=2
*
  if ((month ge nbirth1 and month le (nbirth1+11)) or
     (month ge nbirth2 and month le (nbirth2+11)) or
     (month ge nbirth3 and month le (nbirth3+11)) or
     (month ge nbirth4 and month le (nbirth4+11)) or
     (month ge nbirth5 and month le (nbirth5+11)) or
     (month ge nbirth6 and month ge (nbirth6+11)) or
     (month ge nbirth7 and month ge (nbirth7+11)) or
     (month ge nbirth8 and month le (nbirth8+11)) or
     (month ge nbirth9 and month le (nbirth9+11)))
     ageych=1
end if
*
if ((month ge (nbirth1+192)) or (month ge (nbirth2+192)) or
    (month ge (nbirth3+192)) or (month ge (nbirth4+192)) or
    (month ge (nbirth5+192)) or (month ge (nbirth6+192)) or
    (month ge (nbirth7+192)) or (month ge (nbirth8+192)) or
    (month ge (nbirth9+192)))
    ageych=17
*
if (month ge (nbirth1+180) and month le (nbirth1+191)) or
    (month ge (nbirth2+180) and month le (nbirth2+191)) or
    (month ge (nbirth3+180) and month le (nbirth3+191)) or
    (month ge (nbirth4+180) and month le (nbirth4+191)) or
    (month ge (nbirth5+180) and month le (nbirth5+191)) or
    (month ge (nbirth6+180) and month le (nbirth6+191)) or
    (month ge (nbirth7+180) and month le (nbirth7+191)) or
    (month ge (nbirth8+180) and month le (nbirth8+191)) or
    (month ge (nbirth9+180) and month le (nbirth9+191))
    ageych=16
*
if (month ge (nbirth1+168) and month le (nbirth1+179)) or
    (month ge (nbirth2+168) and month le (nbirth2+179)) or
    (month ge (nbirth3+168) and month le (nbirth3+179)) or
    (month ge (nbirth4+168) and month le (nbirth4+179)) or
    (month ge (nbirth5+168) and month le (nbirth5+179)) or
    (month ge (nbirth6+168) and month le (nbirth6+179)) or
    (month ge (nbirth7+168) and month le (nbirth7+179)) or
    (month ge (nbirth8+168) and month le (nbirth8+179)) or
    (month ge (nbirth9+168) and month le (nbirth9+179))
    ageych=15
*
if (month ge (nbirth1+156) and month le (nbirth1+167)) or
    (month ge (nbirth2+156) and month le (nbirth2+167)) or
    (month ge (nbirth3+156) and month le (nbirth3+167)) or
    (month ge (nbirth4+156) and month le (nbirth4+167)) or
    (month ge (nbirth5+156) and month le (nbirth5+167)) or
    (month ge (nbirth6+156) and month le (nbirth6+167)) or
    (month ge (nbirth7+156) and month le (nbirth7+167)) or
    (month ge (nbirth8+156) and month le (nbirth8+167)) or
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      (month ge (nbirth9+156) and month le (nbirth9+167))
    ageych=14
*
if (month ge (nbirth1+144) and month le (nbirth1+155)) or
    (month ge (nbirth2+144) and month le (nbirth2+155)) or
    (month ge (nbirth3+144) and month le (nbirth3+155)) or
    (month ge (nbirth4+144) and month le (nbirth4+155)) or
    (month ge (nbirth5+144) and month le (nbirth5+155)) or
    (month ge (nbirth6+144) and month le (nbirth6+155)) or
    (month ge (nbirth7+144) and month le (nbirth7+155)) or
    (month ge (nbirth8+144) and month le (nbirth8+155)) or
    (month ge (nbirth9+144) and month le (nbirth9+155))
    ageych=13
*
if (month ge (nbirth1+132) and month le (nbirth1+143)) or
    (month ge (nbirth2+132) and month le (nbirth2+143)) or
    (month ge (nbirth3+132) and month le (nbirth3+143)) or
    (month ge (nbirth4+132) and month le (nbirth4+143)) or
    (month ge (nbirth5+132) and month le (nbirth5+143)) or
    (month ge (nbirth6+132) and month le (nbirth6+143)) or
    (month ge (nbirth7+132) and month le (nbirth7+143)) or
    (month ge (nbirth8+132) and month le (nbirth8+143)) or
    (month ge (nbirth9+132) and month le (nbirth9+143))
    ageych=12
*
if (month ge (nbirth1+120) and month le (nbirth1+131)) or
    (month ge (nbirth2+120) and month le (nbirth2+131)) or
    (month ge (nbirth3+120) and month le (nbirth3+131)) or
    (month ge (nbirth4+120) and month le (nbirth4+131)) or
    (month ge (nbirth5+120) and month le (nbirth5+131)) or
    (month ge (nbirth6+120) and month le (nbirth6+131)) or
    (month ge (nbirth7+120) and month le (nbirth7+131)) or
    (month ge (nbirth8+120) and month le (nbirth8+131)) or
    (month ge (nbirth9+120) and month le (nbirth9+131))
    ageych=11
*
if (month ge (nbirth1+108) and month le (nbirth1+119)) or
    (month ge (nbirth2+108) and month le (nbirth2+119)) or
    (month ge (nbirth3+108) and month le (nbirth3+119)) or
    (month ge (nbirth4+108) and month le (nbirth4+119)) or
    (month ge (nbirth5+108) and month le (nbirth5+119)) or
    (month ge (nbirth6+108) and month le (nbirth6+119)) or
    (month ge (nbirth7+108) and month le (nbirth7+119)) or
    (month ge (nbirth8+108) and month le (nbirth8+119)) or
    (month ge (nbirth9+108) and month le (nbirth9+119))
    ageych=10
*
if (month ge (nbirth1+96) and month le (nbirth1+107)) or
    (month ge (nbirth2+96) and month le (nbirth2+107)) or
    (month ge (nbirth3+96) and month le (nbirth3+107)) or
    (month ge (nbirth4+96) and month le (nbirth4+107)) or
    (month ge (nbirth5+96) and month le (nbirth5+107)) or
    (month ge (nbirth6+96) and month le (nbirth6+107)) or
    (month ge (nbirth7+96) and month le (nbirth7+107)) or
    (month ge (nbirth8+96) and month le (nbirth8+107)) or
    (month ge (nbirth9+96) and month le (nbirth9+107))
    ageych=9
*
if (month ge (nbirth1+84) and month le (nbirth1+95)) or
    (month ge (nbirth2+84) and month le (nbirth2+95)) or
    (month ge (nbirth3+84) and month le (nbirth3+95)) or
    (month ge (nbirth4+84) and month le (nbirth4+95)) or
    (month ge (nbirth5+84) and month le (nbirth5+95)) or
    (month ge (nbirth6+84) and month le (nbirth6+95)) or
    (month ge (nbirth7+84) and month le (nbirth7+95)) or
    (month ge (nbirth8+84) and month le (nbirth8+95)) or
    (month ge (nbirth9+84) and month le (nbirth9+95))
    ageych=8
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*
if (month ge (nbirth1+72) and month le (nbirth1+83)) or
   (month ge (nbirth2+72) and month le (nbirth2+83)) or
   (month ge (nbirth3+72) and month le (nbirth3+83)) or
   (month ge (nbirth4+72) and month le (nbirth4+83)) or
   (month ge (nbirth5+72) and month le (nbirth5+83)) or
   (month ge (nbirth6+72) and month le (nbirth6+83)) or
   (month ge (nbirth7+72) and month le (nbirth7+83)) or
   (month ge (nbirth8+72) and month le (nbirth8+83)) or
   (month ge (nbirth9+72) and month le (nbirth9+83))
   ageych=7
*
if (month ge (nbirth1+60) and month le (nbirth1+71)) or
   (month ge (nbirth2+60) and month le (nbirth2+71)) or
   (month ge (nbirth3+60) and month le (nbirth3+71)) or
   (month ge (nbirth4+60) and month le (nbirth4+71)) or
   (month ge (nbirth5+60) and month le (nbirth5+71)) or
   (month ge (nbirth6+60) and month le (nbirth6+71)) or
   (month ge (nbirth7+60) and month le (nbirth7+71)) or
   (month ge (nbirth8+60) and month le (nbirth8+71)) or
   (month ge (nbirth9+60) and month le (nbirth9+71))
   ageych=6
*
if (month ge (nbirth1+48) and month le (nbirth1+59)) or
   (month ge (nbirth2+48) and month le (nbirth2+59)) or
   (month ge (nbirth3+48) and month le (nbirth3+59)) or
   (month ge (nbirth4+48) and month le (nbirth4+59)) or
   (month ge (nbirth5+48) and month le (nbirth5+59)) or
   (month ge (nbirth6+48) and month le (nbirth6+59)) or
   (month ge (nbirth7+48) and month le (nbirth7+59)) or
   (month ge (nbirth8+48) and month le (nbirth8+59)) or
   (month ge (nbirth9+48) and month le (nbirth9+59))
   ageych=5
*
if (month ge (nbirth1+36) and month le (nbirth1+47)) or
   (month ge (nbirth2+36) and month le (nbirth2+47)) or
   (month ge (nbirth3+36) and month le (nbirth3+47)) or
   (month ge (nbirth4+36) and month le (nbirth4+47)) or
   (month ge (nbirth5+36) and month le (nbirth5+47)) or
   (month ge (nbirth6+36) and month le (nbirth6+47)) or
   (month ge (nbirth7+36) and month le (nbirth7+47)) or
   (month ge (nbirth8+36) and month le (nbirth8+47)) or
   (month ge (nbirth9+36) and month le (nbirth9+47))
   ageych=4
*
if (month ge (nbirth1+24) and month le (nbirth1+35)) or
   (month ge (nbirth2+24) and month le (nbirth2+35)) or
   (month ge (nbirth3+24) and month le (nbirth3+35)) or
   (month ge (nbirth4+24) and month le (nbirth4+35)) or
   (month ge (nbirth5+24) and month le (nbirth5+35)) or
   (month ge (nbirth6+24) and month le (nbirth6+35)) or
   (month ge (nbirth7+24) and month le (nbirth7+35)) or
   (month ge (nbirth8+24) and month le (nbirth8+35)) or
   (month ge (nbirth9+24) and month le (nbirth9+35))
   ageych=3
*
if (month ge (nbirth1+12) and month le (nbirth1+23)) or
   (month ge (nbirth2+12) and month le (nbirth2+23)) or
   (month ge (nbirth3+12) and month le (nbirth3+23)) or
   (month ge (nbirth4+12) and month le (nbirth4+23)) or
   (month ge (nbirth5+12) and month le (nbirth5+23)) or
   (month ge (nbirth6+12) and month le (nbirth6+23)) or
   (month ge (nbirth7+12) and month le (nbirth7+23)) or
   (month ge (nbirth8+12) and month le (nbirth8+23)) or
   (month ge (nbirth9+12) and month le (nbirth9+23))
   ageych=2
*
if ((month ge nbirth1 and month le (nbirth1+11)) or
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        (month ge nbirth2 and month le (nbirth2+11)) or
        (month ge nbirth3 and month le (nbirth3+11)) or
        (month ge nbirth4 and month le (nbirth4+11)) or
        (month ge nbirth5 and month le (nbirth5+11)) or
        (month ge nbirth6 and month ge (nbirth6+11)) or
        (month ge nbirth7 and month ge (nbirth7+11)) or
        (month ge nbirth8 and month le (nbirth8+11)) or
        (month ge nbirth9 and month le (nbirth9+11)))
      ageych=1
*
var labels ageych 'age of youngest child'
val labels ageych 1 '<1 yr' 2 '1-2 yrs' 3 '2-3 yrs' 4 '3-4 yrs' 5 '4-5 yrs'
        6 '5-6 yrs' 7 '6-7 yrs' 8 '7-8 yrs' 9 '8-9 yrs' 10 '9-10 yrs'
        11 '10-11 yrs' 12 '11-12 yrs' 13 '12-13 yrs' 14 '13-14 yrs'
        15 '14-15 yrs' 16 '15-16 yrs' 17 '16 yrs+' 0 'no child'
*
*
*
* compute number of children present each month
*
compute nchild=0
*
do if totbth eq 1
  if (month ge nbirth1) nchild=1
end if
do if totbth eq 2 and (mchild1 ne mchild2)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if (month ge nbirth2) nchild=2
end if
do if totbth eq 2 and (mchild1 eq mchild2)
  if (month ge nbirth1) nchild=2
end if
do if totbth eq 3 and (mchild2 ne mchild3)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
  if (month ge nbirth3) nchild=3
end if
do if totbth eq 3 and (mchild2 eq mchild3)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if (month ge nbirth2) nchild=3
end if
do if totbth eq 4 and (mchild3 ne mchild4)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
  if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
  if (month ge nbirth4) nchild=4
end if
do if totbth eq 4 and (mchild3 eq mchild4)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
  if (month ge nbirth3) nchild=4
end if
do if totbth eq 5 and (mchild4 ne mchild5)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
  if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
  if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
  if (month ge nbirth5) nchild=5
end if
do if totbth eq 5 and (mchild4 eq mchild5)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
  if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
  if (month ge nbirth4) nchild=5
end if
do if totbth eq 6 and (mchild5 ne mchild6)
  if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
  if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
```

```
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if (month ge nbirth6) nchild=6
end if
do if totbth eq 6 and (mchild5 eq mchild6)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if (month ge nbirth5) nchild=6
end if
do if totbth eq 7 and (mchild6 ne mchild7)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if ((month ge nbirth6) and (month lt nbirth7)) nchild=6
   if (month ge nbirth7) nchild=7
end if
do if totbth eq 7 and (mchild6 eq mchild7)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if (month ge nbirth6) nchild=7
end if
do if totbth eq 8 and (mchild7 ne mchild8)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if ((month ge nbirth6) and (month lt nbirth7)) nchild=6
   if ((month ge nbirth7) and (month lt nbirth8)) nchild=7
   if (month ge nbirth8) nchild=8
end if do if totbth eq 8 and (mchild7 eq mchild8)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if ((month ge nbirth6) and (month lt nbirth7)) nchild=6
   if (month ge nbirth7) nchild=8
end if
do if totbth eq 9 and (mchild8 ne mchild9)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if ((month ge nbirth6) and (month lt nbirth7)) nchild=6
   if ((month ge nbirth7) and (month lt nbirth8)) nchild=7
   if ((month ge nbirth8) and (month lt nbirth9)) nchild=8
   if (month ge nbirth9) nchild=9
end if
do if totbth eq 9 and (mchild8 eq mchild9)
   if ((month ge nbirth1) and (month lt nbirth2)) nchild=1
   if ((month ge nbirth2) and (month lt nbirth3)) nchild=2
   if ((month ge nbirth3) and (month lt nbirth4)) nchild=3
   if ((month ge nbirth4) and (month lt nbirth5)) nchild=4
   if ((month ge nbirth5) and (month lt nbirth6)) nchild=5
   if ((month ge nbirth6) and (month lt nbirth7)) nchild=6
   if ((month ge nbirth7) and (month lt nbirth8)) nchild=7
   if (month ge nbirth8) nchild=9
end if
```

```
*
var labels nchild 'number of children'
*
*do if wherkid1 eq 2 or wherkid1 eq 4
*.  do if (month eq c1died) or (month eq c1lliv)
*.    compute nchild=nchild-1
*.  end if
*end if
*
*
* calculate mothers age each month since first birth
*
compute mage1=0
if (month lt 3) mage1=15
if (month ge 3 and month le 14) mage1=16
if (month ge 15 and month le 26) mage1=17
if (month ge 27 and month le 38) mage1=18
if (month ge 39 and month le 50) mage1=19
if (month ge 51 and month le 62) mage1=20
if (month ge 63 and month le 74) mage1=21
if (month ge 75 and month le 86) mage1=22
if (month ge 87 and month le 98) mage1=23
if (month ge 99 and month le 110) mage1=24
if (month ge 111 and month le 122) mage1=25
if (month ge 123 and month le 134) mage1=26
if (month ge 135 and month le 146) mage1=27
if (month ge 147 and month le 158) mage1=28
if (month ge 159 and month le 170) mage1=29
if (month ge 171 and month le 182) mage1=30
if (month ge 183 and month le 194) mage1=31
if (month ge 195 and month le 206) mage1=32
if (month ge 207) mage1=33
*
var labels mage1 'mothers age since first birth'
*
*
*
* compute whether a month is 3 months before or 7 months after a birth
*
compute bthclose=0
if (month le (nbirth1+7)) bthclose=1
if (month ge (nbirth2-3) and (month le (nbirth2+7))) bthclose=1
if (month ge (nbirth3-3) and (month le (nbirth3+7))) bthclose=1
if (month ge (nbirth4-3) and (month le (nbirth4+7))) bthclose=1
if (month ge (nbirth5-3) and (month le (nbirth5+7))) bthclose=1
if (month ge (nbirth6-3) and (month le (nbirth6+7))) bthclose=1
if (month ge (nbirth7-3) and (month le (nbirth7+7))) bthclose=1
if (month ge (nbirth8-3) and (month le (nbirth8+8))) bthclose=1
if (month ge (nbirth9-3) and (month le (nbirth9+9))) bthclose=1
*
*
*
* calculate periods when partner is in a job
compute partjob=-9 *
* first calculate periods when partner is not in a job
*
if ((enjob1 eq 0) and (snjob1 le month)) partjob=0
if ((enjob1 ge 1) and (snjob1 le month and enjob1 gt month)) partjob=0
if ((enjob2 eq 0) and (snjob2 le month)) partjob=0
if ((enjob2 ge 1) and (snjob2 le month and enjob2 gt month)) partjob=0
if ((enjob3 eq 0) and (snjob3 le month)) partjob=0
if ((enjob3 ge 1) and (snjob3 le month and enjob3 gt month)) partjob=0
if ((enjob4 eq 0) and (snjob4 le month)) partjob=0
if ((enjob4 ge 1) and (snjob4 le month and enjob4 gt month)) partjob=0
if ((enjob5 eq 0) and (snjob5 le month)) partjob=0
if ((enjob5 ge 1) and (snjob5 le month and enjob5 gt month)) partjob=0
if ((enjob6 eq 0) and (snjob6 le month)) partjob=0
if ((enjob6 ge 1) and (snjob6 le month and enjob6 gt month)) partjob=0
```

```
if ((enjob7 eq 0) and (snjob7 le month)) partjob=0
if ((enjob7 ge 1) and (snjob7 le month and enjob7 gt month)) partjob=0
if ((enjob8 eq 0) and (snjob8 le month)) partjob=0
if ((enjob8 ge 1) and (snjob8 le month and enjob8 gt month)) partjob=0
if ((enjob9 eq 0) and (snjob9 le month)) partjob=0
if ((enjob9 ge 1) and (snjob9 le month and enjob9 gt month)) partjob=0
if ((enjob10 eq 0) and (snjob10 le month)) partjob=0
if ((enjob10 ge 1) and (snjob10 le month and enjob10 gt month)) partjob=0
if ((enjob11 eq 0) and (snjob11 le month)) partjob=0
if ((enjob11 ge 1) and (snjob11 le month and enjob11 gt month)) partjob=0
if ((enjob12 eq 0) and (snjob12 le month)) partjob=0
if ((enjob12 ge 1) and (snjob12 le month and enjob12 gt month)) partjob=0
*
* now calculate periods when partner is in a job
*
if ((ejob1 eq 0) and (sjob1 le month)) partjob=1
if ((ejob1 ge 1) and (sjob1 le month and ejob1 gt month)) partjob=1
if ((ejob2 eq 0) and (sjob2 le month)) partjob=1
if ((ejob2 ge 1) and (sjob2 le month and ejob2 gt month)) partjob=1
if ((ejob3 eq 0) and (sjob3 le month)) partjob=1
if ((ejob3 ge 1) and (sjob3 le month and ejob3 gt month)) partjob=1
if ((ejob4 eq 0) and (sjob4 le month)) partjob=1
if ((ejob4 ge 1) and (sjob4 le month and ejob4 gt month)) partjob=1
if ((ejob5 eq 0) and (sjob5 le month)) partjob=1
if ((ejob5 ge 1) and (sjob5 le month and ejob5 gt month)) partjob=1
if ((ejob6 eq 0) and (sjob6 le month)) partjob=1
if ((ejob6 ge 1) and (sjob6 le month and ejob6 gt month)) partjob=1
if ((ejob7 eq 0) and (sjob7 le month)) partjob=1
if ((ejob7 ge 1) and (sjob7 le month and ejob7 gt month)) partjob=1
if ((ejob8 eq 0) and (sjob8 le month)) partjob=1
if ((ejob8 ge 1) and (sjob8 le month and ejob8 gt month)) partjob=1
if ((ejob9 eq 0) and (sjob9 le month)) partjob=1
if ((ejob9 ge 1) and (sjob9 le month and ejob9 gt month)) partjob=1
if ((ejob10 eq 0) and (sjob10 le month)) partjob=1
if ((ejob10 ge 1) and (sjob10 le month and ejob10 gt month)) partjob=1
if ((ejob11 eq 0) and (sjob11 le month)) partjob=1
if ((ejob11 ge 1) and (sjob11 le month and ejob11 gt month)) partjob=1
if ((ejob12 eq 0) and (sjob12 le month)) partjob=1
if ((ejob12 ge 1) and (sjob12 le month and ejob12 gt month)) partjob=1
*
*if (sjob1 eq 998) partjob=-8 /* never had a job
*
var labels partjob 'partner in a job'
val labels partjob 1 'yes' 0 'no' -9 'no partner/missing' -8 'never job'
* *
*
* Compute unemployment rate for each month from Jan 1974 to Dec 1991
* Refs: Employment Gazette, Dec 1990. 601-608,
   Employment Gazette, Nov 1991, S22-S23
   Employment Gazette, Feb 1993, S22-S23
*
* 1974
if (month eq 1) unemprat=1.8
if (month ge 2 and month le 3) unemprat=1.9
if (month eq 4) unemprat=2.0
if (month eq 5) unemprat=1.9
if (month ge 6 and month le 7) unemprat=2.0
if (month ge 8 and month le 11) unemprat=2.1
if (month eq 12) unemprat=2.2
*
* 1975
if (month eq 13) unemprat=2.3
if (month eq 14) unemprat=2.4
if (month eq 15) unemprat=2.5
if (month eq 16) unemprat=2.7
if (month eq 17) unemprat=2.9
if (month eq 18) unemprat=3.0
if (month eq 19) unemprat=3.2
```

```
if (month eq 20) unemprat=3.3
if (month eq 21) unemprat=3.4
if (month eq 22) unemprat=3.6
if (month eq 23) unemprat=3.8
if (month eq 24) unemprat=3.9
*
* 1976
if (month eq 25) unemprat=3.9
if (month eq 26) unemprat=4.0
if (month ge 27 and month le 28) unemprat=4.1
if (month ge 29 and month le 31) unemprat=4.2
if (month ge 32 and month le 33) unemprat=4.3
if (month eq 34) unemprat=4.2
if (month ge 35 and month le 36) unemprat=4.3
*
* 1977
if (month ge 37 and month le 41) unemprat=4.3
if (month eq 42) unemprat=4.4
if (month ge 43 and month le 44) unemprat=4.5
if (month ge 45 and month le 48) unemprat=4.6
*
* 1978
if (month eq 49) unemprat=4.5
if (month ge 50 and month le 54) unemprat=4.4
if (month eq 55) unemprat=4.3
if (month eq 56) unemprat=4.4
if (month ge 57 and month le 58) unemprat=4.3
if (month ge 59 and month le 60) unemprat=4.2
*
* 1979
if (month eq 61) unemprat=4.1
if (month ge 62 and month le 63) unemprat=4.2
if (month ge 64 and month le 65) unemprat=4.1
if (month ge 66 and month le 67) unemprat=4.0
if (month ge 68 and month le 69) unemprat=3.9
if (month eq 70) unemprat=4.0 if (month eq 71) unemprat=3.9
if (month eq 72) unemprat=4.0
*
* 1980
if (month eq 73) unemprat=4.0
if (month eq 74) unemprat=4.1
if (month eq 75) unemprat=4.2
if (month eq 76) unemprat=4.4
if (month eq 77) unemprat=4.6
if (month eq 78) unemprat=4.7
if (month eq 79) unemprat=5.0
if (month eq 80) unemprat=5.3
if (month eq 81) unemprat=5.6
if (month eq 82) unemprat=5.9
if (month eq 83) unemprat=6.4
if (month eq 84) unemprat=6.7
*
* 1981
if (month eq 85) unemprat=7.0
if (month eq 86) unemprat=7.2
if (month eq 87) unemprat=7.5
if (month eq 88) unemprat=7.7
if (month eq 89) unemprat=8.0
if (month eq 90) unemprat=8.1
if (month eq 91) unemprat=8.3
if (month eq 92) unemprat=8.5
if (month eq 93) unemprat=8.6
if (month eq 94) unemprat=8.8
if (month eq 95) unemprat=8.9
if (month eq 96) unemprat=9.0
*
* 1982
if (month ge 97 and month le 98) unemprat=9.1
```

```
if (month eq 99) unemprat=9.2
if (month ge 100 and month le 101) unemprat=9.3
if (month eq 102) unemprat=9.4
if (month eq 103) unemprat=9.6
if (month eq 104) unemprat=9.7
if (month eq 105) unemprat=9.8
if (month eq 106) unemprat=9.9
if (month eq 107) unemprat=10.0
if (month eq 108) unemprat=10.1
*
* 1983
if (month ge 109 and month le 110) unemprat=10.2
if (month eq 111) unemprat=10.3
if (month eq 112) unemprat=10.4
if (month ge 113 and month le 114) unemprat=10.5
if (month eq 115) unemprat=10.6
if (month eq 116) unemprat=10.5
if (month ge 117 and month le 119) unemprat=10.6
if (month eq 120) unemprat=10.7
*
* 1984
if (month ge 121 and month le 122) unemprat=10.5
if (month ge 123  and month le 126) unemprat=10.6
if (month ge 127 and month le 128) unemprat=10.7
if (month eq 129) unemprat=10.8
if (month ge 130 and month le 132) unemprat=10.9
* * 1985
if (month eq 133) unemprat=10.8
if (month ge 134 and month le 140) unemprat=10.9
if (month ge 141 and month le 143) unemprat=11.0
if (month eq 144) unemprat=11.1
* 1986
if (month ge 145 and month le 146) unemprat=11.1
if (month ge 147 and month le 153) unemprat=11.2
if (month ge 154 and month le 155) unemprat=11.1
if (month eq 156) unemprat=11.0
*
* 1987
if (month eq 157) unemprat=10.9
if (month eq 158) unemprat=10.7
if (month eq 159) unemprat=10.6
if (month eq 160) unemprat=10.5
if (month eq 161) unemprat=10.3
if (month eq 162) unemprat=10.1
if (month eq 163) unemprat=10.0
if (month eq 164) unemprat=9.8
if (month eq 165) unemprat=9.6
if (month eq 166) unemprat=9.4
if (month eq 167) unemprat=9.2
if (month eq 168) unemprat=9.1
*
* 1988
if (month eq 169) unemprat=8.9
if (month eq 170) unemprat=8.7
if (month eq 171) unemprat=8.6
if (month eq 172) unemprat=8.5
if (month eq 173) unemprat=8.3
if (month eq 174) unemprat=8.1
if (month eq 175) unemprat=7.9
if (month eq 176) unemprat=7.8
if (month eq 177) unemprat=7.7
if (month eq 178) unemprat=7.5
if (month eq 179) unemprat=7.4
if (month eq 180) unemprat=7.2
*
* 1989
if (month eq 181) unemprat=7.0
if (month eq 182) unemprat=6.8
```

```
if (month eq 183) unemprat=6.7
if (month eq 184) unemprat=6.5
if (month eq 185) unemprat=6.4
if (month eq 186) unemprat=6.3
if (month eq 187) unemprat=6.2
if (month eq 188) unemprat=6.1
if (month ge 189 and month le 190) unemprat=5.9
if (month eq 191) unemprat=5.8
if (month eq 192) unemprat=5.7
*
* 1990
if (month ge 193 and month le 194) unemprat=5.7
if (month ge 195 and month le 196) unemprat=5.6
if (month ge 197 and month le 199) unemprat=5.7
if (month eq 200) unemprat=5.8
if (month eq 201) unemprat=5.9
if (month eq 202) unemprat=6.0
if (month eq 203) unemprat=6.2 if (month eq 204) unemprat=6.5
*
* 1991
if (month eq 205) unemprat=6.7
if (month eq 206) unemprat=7.0
if (month eq 207) unemprat=7.4
if (month eq 208) unemprat=7.7
if (month eq 209) unemprat=7.9
if (month eq 210) unemprat=8.1
if (month eq 211) unemprat=8.4
if (month eq 212) unemprat=8.6
if (month eq 213) unemprat=8.7
if (month eq 214) unemprat=8.8
if (month eq 215) unemprat=8.9
if (month eq 216) unemprat=9.0
*
var labels unemprat 'Monthly unemployment rate'
*
**
end case
end loop
end input program
*
*
*
***************************************************************************
* Now compute variables that are constant
***************************************************************************
*
* compute dummy's for highest educational qualification in 1991
*
compute none=0
if (hiqual eq 1) none=1
if (hiqual eq 0) none=9
compute some=0
if (hiqual eq 2) some=1
if (hiqual eq 0) some=9
compute olev=0
if (hiqual eq 3) olev=1
if (hiqual eq 0) olev=9
compute alev=0
if (hiqual eq 4 or hiqual eq 5) alev=1
if (hiqual eq 0) alev=9
compute degree=0
if (hiqual eq 5) degree=1
if (hiqual eq 0) degree=9
*
missing values none some olev alev degree (9)
*
*
*
```

```
* attitudes to work at age 23 (NCDS4)
*
compute workatt1=n4875 /* a woman can get ahead as easily as a man
compute workatt2=n4870 /* if unemployed, people think you're a nobody
*
*
*
* compute maternity leave indicator
compute matleav1=0 if (interval eq 0 or interval lt 9) matleav1=1
*
*
*
* compute dummies for CM's father's social class at age 16
*
compute proff=0
if (fsoc16 eq 1) proff=1
compute intermed=0
if (fsoc16 eq 2) intermed=1
compute nonman=0
if (fsoc16 eq 3) nonman=1
compute skman=0
if (fsoc16 eq 4) skman=1
compute sskill=0
if (fsoc16 eq 5 or fsoc16 eq 6) sskill=1
compute unskill=0
if (fsoc16 eq 7) unskill=1
compute classmis=0
if (fsoc16 eq 8 or mis(fsoc16)) classmis=1
*
*
*
* calculate an id number for each cohort member, starting at 1.
*
compute id=0
if ~missing (lag(id)) id=(lag(id))
if (serial ne (lag(serial))) id=(id+1)
*
*
*
* compute dummies for mother's age at first birth
*
compute magebth1=0
if (nbirth1 ge 1 and nbirth1 le 50) magebth1=1
compute magebth2=0
if (nbirth1 ge 51 and nbirth1 le 110) magebth2=1
compute magebth3=0
if (nbirth1 ge 111 and nbirth1 le 170) magebth3=1
compute magebth4=0
if (nbirth1 ge 171 and nbirth1 le intview) magebth4=1
*
var labels magebth1 'mothers age at first birth lt 20 yrs'
          /magebth2 'mothers age at first birth 20-24 yrs'
          /magebth3 'mothers age at first birth 25-29 yrs'
          /magebth4 'mothers age at first birth 30+ yrs'
*
*
*
* compute dummies for tenure variables
*
* tenure 6 month before birth (bb)
compute ownocbb=0
if (ten6mobb eq 1) ownocbb=1
if (ten6mobb eq 9) ownocbb=9
compute socbb=0
if (ten6mobb eq 2) socbb=1
if (ten6mobb eq 9) socbb=9
compute rentbb=0
if (ten6mobb eq 3) rentbb=1 if (ten6mobb eq 9) rentbb=9
```

```
compute parbb=0
if (ten6mobb eq 4) parbb=1
if (ten6mobb eq 9) parbb=9
*
missing values  ownocbb socbb rentbb parbb (9)
*
* tenure at birth (atb)
compute ownocatb=0
if (tenatb eq 1) ownocatb=1
if (tenatb eq 9) ownocatb=9
compute socatb=0
if (tenatb eq 2) socatb=1
if (tenatb eq 9) socatb=9
compute rentatb=0
if (tenatb eq 3) rentatb=1
if (tenatb eq 9) rentatb=9
compute paratb=0
if (tenatb eq 4) paratb=1
if (tenatb eq 9) paratb=9
*
missing values ownocatb socatb rentatb paratb (9)
*
* tenure 6 months after birth (ab)
compute ownocab=0
if (ten6moab eq 1) ownocab=1
if (ten6moab eq 9) ownocab=9
compute socab=0
if (ten6moab eq 2) socab=1
if (ten6moab eq 9) socab=9
compute rentab=0
if (ten6moab eq 3) rentab=1
if (ten6moab eq 9) rentab=9
compute parab=0
if (ten6moab eq 4) parab=1
if (ten6moab eq 9) parab=9
*
missing values ownocab socab rentab parab (9)
*
*
*
* compute dummies for current partner's age at leaving FT education
*
* compute age leaving FT ed 18yrs or less
compute pedle18=parted
if any(parted,1,2,3,4) pedle18=1
if any(parted, 5,6,7,8,999) pedle18=0
if (parted eq 99) pedle18=9

* compute age leaving FT ed 19yrs+
compute pedge19=parted
if any(parted,5,6,7,8) pedge19=1
if any(parted,1,2,3,4,999) pedge19=0
if (parted eq 99) pedge19=9
*
missing values pedle18 pedge19 (9)
*
*
select if totbth ge 1
* save outfile=
*
fin
```

Part 2: Merging files

```
*
import file='filename.exp'
save outfile='filename.sys' /keep varname varname
fin
* SPSS command file to merge two system files
*
get file='filea.sys'
sort cases by serial
*save outfile='fileb.sys'
*
get file='file1.sys'
sort cases by serial
match files file=*
 /file='file2.sys'
 / by serial month
*select if (serial ne ' ')
*select if (n622=2)/*keep women only
save outfile='file3.sys'
finish
```

Part 3:   Frequencies from first birth to interview

YEAR   time (yrs) since first birth

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	.00	839	.2	.2	.2
	1.00	46493	11.5	11.5	11.7
	2.00	45002	11.1	11.1	22.8
	3.00	42975	10.6	10.6	33.5
	4.00	40548	10.0	10.0	43.5
	5.00	37795	9.3	9.3	52.8
	6.00	34859	8.6	8.6	61.5
	7.00	31382	7.8	7.8	69.2
	8.00	27737	6.9	6.9	76.1
	9.00	24132	6.0	6.0	82.1
	10.00	20389	5.0	5.0	87.1
	11.00	16444	4.1	4.1	91.2
	12.00	12752	3.2	3.2	94.3
	13.00	9414	2.3	2.3	96.7
	14.00	6574	1.6	1.6	98.3
	15.00	4171	1.0	1.0	99.3
	16.00	2125	.5	.5	99.8
	17.00	653	.2	.2	100.0
		-------	-------	-------	
	Total	404284	100.0	100.0	

Valid cases 404284   Missing cases   0

- -

MARHIST   currently married

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	-9.00	8725	2.2	2.2	2.2
no	.00	156182	38.6	38.6	40.8
yes	1.00	239377	59.2	59.2	100.0
		-------	-------	-------	
	Total	404284	100.0	100.0	

Valid cases 404284   Missing cases   0
- -
COHABHIS   currently cohabiting

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	-9.00	7236	1.8	1.8	1.8
no	.00	279684	69.2	69.2	71.0
yes	1.00	117364	29.0	29.0	100.0
		-------	-------	-------	
	Total	404284	100.0	100.0	

Valid cases 404284   Missing cases   0

- -

PARTHIS   in partnership status unknown

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	-9.00	8839	2.2	2.2	2.2
no	.00	395445	97.8	97.8	100.0
		-------	-------	-------	
	Total	404284	100.0	100.0	

Valid cases 404284   Missing cases   0

AGEYCH   age of youngest child

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	.00	776	.2	.2	.2
<1 yr	1.00	94496	23.4	23.4	23.6
1-2 yrs	2.00	83261	20.6	20.6	44.2
2-3 yrs	3.00	61199	15.1	15.1	59.3
3-4 yrs	4.00	43678	10.8	10.8	70.1
4-5 yrs	5.00	32528	8.0	8.0	78.1
5-6 yrs	6.00	25330	6.3	6.3	84.4
6-7 yrs	7.00	19427	4.8	4.8	89.2
7-8 yrs	8.00	14263	3.5	3.5	92.7
8-9 yrs	9.00	10312	2.6	2.6	95.3
9-10 yrs	10.00	7098	1.8	1.8	97.1

```
10-11 yrs                     11.00      4743     1.2      1.2     98.2
11-12 yrs                     12.00      3131      .8       .8     99.0
12-13 yrs                     13.00      1896      .5       .5     99.5
13-14 yrs                     14.00      1114      .3       .3     99.7
14-15 yrs                     15.00       642      .2       .2     99.9
15-16 yrs                     16.00       295      .1       .1    100.0
16 yrs+                       17.00        95      .0       .0    100.0
                                       -------  -------  -------
                              Total    404284   100.0    100.0
Valid cases  404284    Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 NCHILD    number of children
                                                  Valid    Cum
Value Label                   Value  Frequency  Percent  Percent  Percent

                               .00       776      .2       .2       .2
                              1.00    172879     42.8     42.8     43.0
                              2.00    170260     42.1     42.1     85.1
                              3.00     49343     12.2     12.2     97.3
                              4.00      8919      2.2      2.2     99.5
                              5.00      1771      .4       .4     99.9
                              6.00       183      .0       .0    100.0
                              7.00        53      .0       .0    100.0
                              8.00        72      .0       .0    100.0
                              9.00        28      .0       .0    100.0
                                       -------  -------  -------
                              Total    404284   100.0    100.0
Valid cases  404284    Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 MAGE1     mothers age since first birth
                                                  Valid    Cum
Value Label                   Value  Frequency  Percent  Percent  Percent

                             15.00         2      .0       .0       .0
                             16.00       347      .1       .1       .1
                             17.00      1402      .3       .3       .4
                             18.00      3491      .9       .9      1.3
                             19.00      5663     1.4      1.4      2.7
                             20.00      8354     2.1      2.1      4.8
                             21.00     11287     2.8      2.8      7.6
                             22.00     14908     3.7      3.7     11.2
                             23.00     18847     4.7      4.7     15.9
                             24.00     22644     5.6      5.6     21.5
                             25.00     26212     6.5      6.5     28.0
                             26.00     29818     7.4      7.4     35.4
                             27.00     33389     8.3      8.3     43.6
                             28.00     36417     9.0      9.0     52.6
                             29.00     39203     9.7      9.7     62.3
                             30.00     41785    10.3     10.3     72.7
                             31.00     43896    10.9     10.9     83.5
                             32.00     45457    11.2     11.2     94.8
                             33.00     21162     5.2      5.2    100.0
                                       -------  -------  -------
                              Total    404284   100.0    100.0
Valid cases  404284    Missing cases      0

 BTHCLOSE
                                                  Valid    Cum
Value Label                   Value  Frequency  Percent  Percent  Percent

                               .00    327844     81.1     81.1     81.1
                              1.00     76440     18.9     18.9    100.0
                                       -------  -------  -------
                              Total    404284   100.0    100.0

Valid cases  404284    Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PARTJOB    partner in a job
                                                  Valid    Cum
Value Label                   Value  Frequency  Percent  Percent  Percent

no partner/missing           -9.00    310621     76.8     76.8     76.8
                               .00     11054      2.7      2.7     79.6
yes                           1.00     82609     20.4     20.4    100.0
                                       -------  -------  -------
                              Total    404284   100.0    100.0

Valid cases  404284    Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

UNEMPRAT Monthly unemployment rate

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1.90	16	.0	.0	.0
	2.00	43	.0	.0	.0
	2.10	136	.0	.0	.0
	2.20	46	.0	.0	.1
	2.30	52	.0	.0	.1
	2.40	56	.0	.0	.1
	2.50	63	.0	.0	.1
	2.70	68	.0	.0	.1
	2.90	74	.0	.0	.1
	3.00	90	.0	.0	.2
	3.20	97	.0	.0	.2
	3.30	106	.0	.0	.2
	3.40	118	.0	.0	.2
	3.60	130	.0	.0	.3
	3.80	140	.0	.0	.3
	3.90	3200	.8	.8	1.1
	4.00	5002	1.2	1.2	2.3
	4.10	3986	1.0	1.0	3.3
	4.20	5343	1.3	1.3	4.6
	4.30	5248	1.3	1.3	5.9
	4.40	5273	1.3	1.3	7.2
	4.50	1457	.4	.4	7.6
	4.60	3202	.8	.8	8.4
	4.70	1184	.3	.3	8.7
	5.00	1204	.3	.3	9.0
	5.30	1237	.3	.3	9.3
	5.60	8734	2.2	2.2	11.5
	5.70	22437	5.5	5.5	17.0
	5.80	7482	1.9	1.9	18.9
	5.90	12431	3.1	3.1	21.9
	6.00	3805	.9	.9	22.9
	6.10	3655	.9	.9	23.8
	6.20	7460	1.8	1.8	25.6
	6.30	3624	.9	.9	26.5
	6.40	4909	1.2	1.2	27.7
	6.50	7415	1.8	1.8	29.6
	6.70	8732	2.2	2.2	31.7
	6.80	3565	.9	.9	32.6
	7.00	8734	2.2	2.2	34.8
	7.20	4907	1.2	1.2	36.0
	7.40	7349	1.8	1.8	37.8
	7.50	4913	1.2	1.2	39.0
	7.70	8752	2.2	2.2	41.2
	7.80	3479	.9	.9	42.0
	7.90	7299	1.8	1.8	43.8
	8.00	1477	.4	.4	44.2
	8.10	8773	2.2	2.2	46.4
	8.30	4955	1.2	1.2	47.6
	8.40	3082	.8	.8	48.4
	8.50	4966	1.2	1.2	49.6
	8.60	6425	1.6	1.6	51.2
	8.70	3965	1.0	1.0	52.2
	8.80	2000	.5	.5	52.7
	8.90	5236	1.3	1.3	54.0
	9.00	1777	.4	.4	54.4
	9.10	6754	1.7	1.7	56.1
	9.20	5066	1.3	1.3	57.3
	9.30	3569	.9	.9	58.2
	9.40	5116	1.3	1.3	59.5
	9.60	5132	1.3	1.3	60.7
	9.70	1877	.5	.5	61.2
	9.80	5163	1.3	1.3	62.5
	9.90	1925	.5	.5	63.0
	10.00	5187	1.3	1.3	64.2
	10.10	5188	1.3	1.3	65.5
	10.20	4024	1.0	1.0	66.5
	10.30	5238	1.3	1.3	67.8
	10.40	2074	.5	.5	68.3
	10.50	14199	3.5	3.5	71.8
	10.60	21508	5.3	5.3	77.2
	10.70	10318	2.6	2.6	79.7
	10.80	5082	1.3	1.3	81.0
	10.90	29707	7.3	7.3	88.3
	11.00	11563	2.9	2.9	91.2
	11.10	14788	3.7	3.7	94.8
	11.20	20897	5.2	5.2	100.0
		-------	-------	-------	
	Total	404284	100.0	100.0	

Valid cases 404284   Missing cases   0

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 NONE
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                            .00    320987    79.4     81.1     81.1
                           1.00     74618    18.5     18.9    100.0
                           9.00      8679     2.1   Missing
                                   -------   -------  -------
                           Total   404284    100.0    100.0

Valid cases  395605    Missing cases   8679

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 SOME
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                            .00    304936    75.4     77.1     77.1
                           1.00     90669    22.4     22.9    100.0
                           9.00      8679     2.1   Missing
                                   -------   -------  -------
                           Total   404284    100.0    100.0

Valid cases  395605    Missing cases   8679

 OLEV
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                            .00    253030    62.6     64.0     64.0
                           1.00    142575    35.3     36.0    100.0
                           9.00      8679     2.1   Missing
                                   -------   -------  -------
                           Total   404284    100.0    100.0

Valid cases  395605    Missing cases   8679

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 ALEV
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                            .00    326834    80.8     82.6     82.6
                           1.00     68771    17.0     17.4    100.0
                           9.00      8679     2.1   Missing
                                   -------   -------  -------
                           Total   404284    100.0    100.0

Valid cases  395605    Missing cases   8679

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 DEGREE
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                            .00    353402    87.4     89.3     89.3
                           1.00     42203    10.4     10.7    100.0
                           9.00      8679     2.1   Missing
                                   -------   -------  -------
                           Total   404284    100.0    100.0
Valid cases  395605    Missing cases   8679

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 HIQUAL
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent

                              0     8679      2.1      2.1      2.1
                              1    74618     18.5     18.5     20.6
                              2    90669     22.4     22.4     43.0
                              3   142575     35.3     35.3     78.3
                              4    26568      6.6      6.6     84.9
                              5    42203     10.4     10.4     95.3
                              6    18972      4.7      4.7    100.0
                                  -------   -------  -------
                           Total   404284    100.0    100.0

Valid cases  404284    Missing cases      0

 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 WORKATT1
                                              Valid    Cum
Value Label                Value  Frequency  Percent  Percent  Percent
```

```
                          1.00     30444      7.5      7.5      7.5
                          2.00    220320     54.5     54.5     62.0
                          3.00     77090     19.1     19.1     81.1
                          4.00     72379     17.9     17.9     99.0
                          5.00      4051      1.0      1.0    100.0
                                  -------  -------  -------
                         Total    404284    100.0    100.0
```

Valid cases 404284   Missing cases   0

- -

WORKATT2

```
                                               Valid     Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                         1.00      5138      1.3      1.5      1.5
                         2.00     76337     18.9     21.9     23.4
                         3.00     51569     12.8     14.8     38.2
                         4.00    204158     50.5     58.7     96.9
                         5.00     10824      2.7      3.1    100.0
                            .     56258     13.9  Missing
                                 -------  -------  -------
                        Total    404284    100.0    100.0
```

Valid cases 348026   Missing cases 56258

- -

MATLEAV1

```
                                               Valid     Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                          .00    283801     70.2     70.2     70.2
                         1.00    120483     29.8     29.8    100.0
                                 -------  -------  -------
                        Total    404284    100.0    100.0
```

Valid cases 404284   Missing cases   0

- -

PROFF

```
                                               Valid     Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                          .00    394985     97.7     97.7     97.7
                         1.00      9299      2.3      2.3    100.0
                                 -------  -------  -------
                        Total    404284    100.0    100.0
```

Valid cases 404284   Missing cases   0

- -

INTERMED

```
                                               Valid     Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                          .00    356108     88.1     88.1     88.1
                         1.00     48176     11.9     11.9    100.0
                                 -------  -------  -------
                        Total    404284    100.0    100.0
```

Valid cases 404284   Missing cases   0

- -

NONMAN

```
                                               Valid     Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                          .00    380868     94.2     94.2     94.2
                         1.00     23416      5.8      5.8    100.0
                                 -------  -------  -------
                        Total    404284    100.0    100.0
```

Valid cases 404284   Missing cases   0

- -

SKMAN

```
                                               Valid     Cum
```

```
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    272136      67.3     67.3     67.3
                                1.00    132148      32.7     32.7    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 SSKILL

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    359052      88.8     88.8     88.8
                                1.00     45232      11.2     11.2    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
UNSKILL

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    386675      95.6     95.6     95.6
                                1.00     17609       4.4      4.4    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
CLASSMIS

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    275880      68.2     68.2     68.2
                                1.00    128404      31.8     31.8    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MAGEBTH1   mothers age at first birth lt 20 yrs

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    305096      75.5     75.5     75.5
                                1.00     99188      24.5     24.5    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -


 MAGEBTH2   mothers age at first birth 20-24 yrs

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00    212945      52.7     52.7     52.7
                                1.00    191339      47.3     47.3    100.0
                                       -------   -------  -------
                               Total    404284     100.0    100.0

Valid cases  404284     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MAGEBTH3   mothers age at first birth 25-29 yrs

                                                    Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
```

```
                                   .00    303751    75.1    75.1     75.1
                                  1.00    100533    24.9    24.9    100.0
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  404284     Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

MAGEBTH4   mothers age at first birth 30+ yrs

                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent

                                   .00    391284    96.8    96.8     96.8
                                  1.00     13000     3.2     3.2    100.0
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  404284     Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

OWNOCBB
                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent

                                   .00    195216    48.3    52.8     52.8
                                  1.00    174690    43.2    47.2    100.0
                                  9.00     34378     8.5  Missing
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  369906     Missing cases  34378

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 SOCBB
                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent
                                   .00    307900    76.2    83.2     83.2
                                  1.00     62006    15.3    16.8    100.0
                                  9.00     34378     8.5  Missing
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  369906     Missing cases  34378

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

RENTBB
                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent

                                   .00    304885    75.4    82.4     82.4
                                  1.00     65021    16.1    17.6    100.0
                                  9.00     34378     8.5  Missing
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  369906     Missing cases  34378

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PARBB
                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent

                                   .00    301717    74.6    81.6     81.6
                                  1.00     68189    16.9    18.4    100.0
                                  9.00     34378     8.5  Missing
                                        -------  -------  -------
                                 Total    404284   100.0   100.0

Valid cases  369906     Missing cases  34378

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

OWNOCATB
                                                    Valid     Cum
Value Label              Value   Frequency  Percent  Percent  Percent
```

```
                                .00    186600    46.2     50.1    50.1
                               1.00    185587    45.9     49.9   100.0
                               9.00     32097     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372187    Missing cases  32097

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  SOCATB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                .00    295271    73.0     79.3    79.3
                               1.00     76916    19.0     20.7   100.0
                               9.00     32097     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372187    Missing cases  32097

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

RENTATB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                .00    311585    77.1     83.7    83.7
                               1.00     60602    15.0     16.3   100.0
                               9.00     32097     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372187    Missing cases  32097
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PARATB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                .00    323105    79.9     86.8    86.8
                               1.00     49082    12.1     13.2   100.0
                               9.00     32097     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372187    Missing cases  32097

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

OWNOCAB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                .00    180802    44.7     48.6    48.6
                               1.00    191578    47.4     51.4   100.0
                               9.00     31904     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372380    Missing cases  31904

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
SOCAB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                .00    283549    70.1     76.1    76.1
                               1.00     88831    22.0     23.9   100.0
                               9.00     31904     7.9   Missing
                                       -------  -------  -------
                              Total    404284    100.0    100.0

Valid cases  372380    Missing cases  31904

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

RENTAB
                                                         Valid     Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
```

```
                            .00    317090    78.4    85.2    85.2
                           1.00     55290    13.7    14.8   100.0
                           9.00     31904     7.9  Missing
                                   -------  ------- -------
                          Total    404284   100.0   100.0

Valid cases  372380     Missing cases  31904
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PARAB

                                                    Valid    Cum
Value Label                 Value  Frequency Percent Percent Percent

                            .00    335699    83.0    90.1    90.1
                           1.00     36681     9.1     9.9   100.0
                           9.00     31904     7.9  Missing
                                   -------  ------- -------
                          Total    404284   100.0   100.0

Valid cases  372380     Missing cases  31904
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  PAR2TED

                                                    Valid    Cum
Value Label                 Value  Frequency Percent Percent Percent

                              1    118597    29.3    29.3    29.3
                              2    136808    33.8    33.8    63.2
                              3     23434     5.8     5.8    69.0
                              4     22457     5.6     5.6    74.5
                              5      5523     1.4     1.4    75.9
                              6     26881     6.6     6.6    82.5
                              7      8020     2.0     2.0    84.5
                              8        76      .0      .0    84.5
                             99      9792     2.4     2.4    87.0
                            999     52696    13.0    13.0   100.0
                                   -------  ------- -------
                          Total    404284   100.0   100.0
Valid cases  404284     Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

JOB

                                                    Valid    Cum
Value Label                 Value  Frequency Percent Percent Percent

                            .00    172910    42.8    50.5    50.5
                           1.00     70000    17.3    20.4    70.9
                           2.00     95157    23.5    27.8    98.7
                           3.00      4419     1.1     1.3   100.0
                              .     61798    15.3  Missing
                                   -------  ------- -------
                          Total    404284   100.0   100.0

Valid cases  342486     Missing cases  61798

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PEDLE18

                                                    Valid    Cum
Value Label                 Value  Frequency Percent Percent Percent

                            .00     93196    23.1    23.6    23.6
                           1.00    301296    74.5    76.4   100.0
                           9.00      9792     2.4  Missing
                                   -------  ------- -------
                          Total    404284   100.0   100.0

Valid cases  394492     Missing cases   9792

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PEDGE19

                                                    Valid    Cum
Value Label                 Value  Frequency Percent Percent Percent

                            .00    353992    87.6    89.7    89.7
                           1.00     40500    10.0    10.3   100.0
                           9.00      9792     2.4  Missing
                                   -------  ------- -------
                          Total    404284   100.0   100.0

Valid cases  394492     Missing cases   9792
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

Part 4:   Frequencies from first birth to first job

YEAR   time (yrs) since first birth

				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
	.00	242	.1	.1	.1
	1.00	32246	19.3	19.3	19.4
	2.00	26064	15.6	15.6	35.0
	3.00	22373	13.4	13.4	48.4
	4.00	18620	11.1	11.1	59.5
	5.00	15333	9.2	9.2	68.7
	6.00	12703	7.6	7.6	76.3
	7.00	10281	6.1	6.1	82.4
	8.00	7913	4.7	4.7	87.1
	9.00	6113	3.7	3.7	90.8
	10.00	4696	2.8	2.8	93.6
	11.00	3657	2.2	2.2	95.8
	12.00	2686	1.6	1.6	97.4
	13.00	1868	1.1	1.1	98.5
	14.00	1283	.8	.8	99.3
	15.00	746	.4	.4	99.7
	16.00	352	.2	.2	99.9
	17.00	141	.1	.1	100.0
		-------	-------	-------	
	Total	167317	100.0	100.0	

Valid cases 167317   Missing cases   0

- -
MARHIST   currently married

				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
no	.00	57901	34.6	35.6	35.6
yes	1.00	104608	62.5	64.4	100.0
	-9.00	4808	2.9	Missing	
		-------	-------	-------	
	Total	167317	100.0	100.0	

Valid cases 162509   Missing cases   4808
- -
 COHABHIS currently cohabiting

				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
no	.00	119699	71.5	73.4	73.4
yes	1.00	43411	25.9	26.6	100.0
	-9.00	4207	2.5	Missing	
		-------	-------	-------	
	Total	167317	100.0	100.0	

Valid cases 163110   Missing cases   4207

- -
PARTHIS   in partnership status unknown

				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
no	.00	162432	97.1	100.0	100.0
	-9.00	4885	2.9	Missing	
		-------	-------	-------	
	Total	167317	100.0	100.0	

Valid cases 162432   Missing cases   4885

- -
AGEYCH   age of youngest child

				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
no child	.00	239	.1	.1	.1
<1 yr	1.00	56147	33.6	33.6	33.7
1-2 yrs	2.00	42447	25.4	25.4	59.1
2-3 yrs	3.00	26375	15.8	15.8	74.8
3-4 yrs	4.00	15584	9.3	9.3	84.1
4-5 yrs	5.00	9798	5.9	5.9	90.0
5-6 yrs	6.00	6375	3.8	3.8	93.8
6-7 yrs	7.00	3859	2.3	2.3	96.1
7-8 yrs	8.00	2412	1.4	1.4	97.6
8-9 yrs	9.00	1646	1.0	1.0	98.5
9-10 yrs	10.00	1027	.6	.6	99.2

```
10-11 yrs                       11.00       660       .4       .4      99.6
11-12 yrs                       12.00       423       .3       .3      99.8
12-13 yrs                       13.00       199       .1       .1      99.9
13-14 yrs                       14.00        80       .0       .0     100.0
14-15 yrs                       15.00        39       .0       .0     100.0
15-16 yrs                       16.00         7       .0       .0     100.0
                                         -------  -------  -------
                                Total    167317    100.0    100.0
Valid cases  167317    Missing cases       0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 NCHILD     number of children
                                                         Valid     Cum
Value Label                     Value  Frequency  Percent  Percent  Percent
b2
                                  .00       239       .1       .1       .1
                                 1.00     82773     49.5     49.5     49.6
                                 2.00     61025     36.5     36.5     86.1
                                 3.00     18429     11.0     11.0     97.1
                                 4.00      3780      2.3      2.3     99.4
                                 5.00       823       .5       .5     99.9
                                 6.00       136       .1       .1     99.9
                                 7.00        38       .0       .0    100.0
                                 8.00        52       .0       .0    100.0
                                 9.00        22       .0       .0    100.0
                                         -------  -------  -------
                                Total    167317    100.0    100.0

Valid cases  167317    Missing cases       0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 MAGE1     mothers age since first birth
                                                         Valid     Cum
Value Label                     Value  Frequency  Percent  Percent  Percent

                                15.00         2       .0       .0       .0
                                16.00       331       .2       .2       .2
                                17.00      1187       .7       .7       .9
                                18.00      2745      1.6      1.6      2.5
                                19.00      4242      2.5      2.5      5.1
                                20.00      5801      3.5      3.5      8.6
                                21.00      7453      4.5      4.5     13.0
                                22.00      9409      5.6      5.6     18.6
                                23.00     11337      6.8      6.8     25.4
                                24.00     12792      7.6      7.6     33.1
                                25.00     13981      8.4      8.4     41.4
                                26.00     15107      9.0      9.0     50.4
                                27.00     15329      9.2      9.2     59.6
                                28.00     14684      8.8      8.8     68.4
                                29.00     13763      8.2      8.2     76.6
                                30.00     12760      7.6      7.6     84.2
                                31.00     11737      7.0      7.0     91.2
                                32.00     10429      6.2      6.2     97.5
                                33.00      4228      2.5      2.5    100.0
                                         -------  -------  -------
                                Total    167317    100.0    100.0
Valid cases  167317    Missing cases       0

 BTHCLOSE

                                                         Valid     Cum
Value Label                     Value  Frequency  Percent  Percent  Percent

                                  .00    122005     72.9     72.9     72.9
                                 1.00     45312     27.1     27.1    100.0
                                         -------  -------  -------
                                Total    167317    100.0    100.0

Valid cases  167317    Missing cases       0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PARTJOB    partner in a job

                                                         Valid     Cum
Value Label                     Value  Frequency  Percent  Percent  Percent

no partner/missing              -9.00    129146     77.2     77.2     77.2
no                                .00      5446      3.3      3.3     80.4
yes                              1.00     32725     19.6     19.6    100.0
                                         -------  -------  -------
                                Total    167317    100.0    100.0

Valid cases  167317    Missing cases       0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

UNEMPRAT Monthly unemployment rate

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1.90	16	.0	.0	.0
	2.00	43	.0	.0	.0
	2.10	133	.1	.1	.1
	2.20	43	.0	.0	.1
	2.30	48	.0	.0	.2
	2.40	50	.0	.0	.2
	2.50	55	.0	.0	.2
	2.70	59	.0	.0	.3
	2.90	64	.0	.0	.3
	3.00	79	.0	.0	.4
	3.20	83	.0	.0	.4
	3.30	90	.1	.1	.5
	3.40	100	.1	.1	.5
	3.60	109	.1	.1	.6
	3.80	119	.1	.1	.7
	3.90	2153	1.3	1.3	1.9
	4.00	3323	2.0	2.0	3.9
	4.10	2724	1.6	1.6	5.6
	4.20	3723	2.2	2.2	7.8
	4.30	3892	2.3	2.3	10.1
	4.40	3705	2.2	2.2	12.3
	4.50	1091	.7	.7	13.0
	4.60	2252	1.3	1.3	14.3
	4.70	753	.5	.5	14.8
	5.00	751	.4	.4	15.2
	5.30	775	.5	.5	15.7
	5.60	2621	1.6	1.6	17.2
	5.70	5510	3.3	3.3	20.5
	5.80	1841	1.1	1.1	21.6
	5.90	3639	2.2	2.2	23.8
	6.00	855	.5	.5	24.3
	6.10	987	.6	.6	24.9
	6.20	1829	1.1	1.1	26.0
	6.30	996	.6	.6	26.6
	6.40	1812	1.1	1.1	27.7
	6.50	1833	1.1	1.1	28.8
	6.70	2666	1.6	1.6	30.4
	6.80	1020	.6	.6	31.0
	7.00	2691	1.6	1.6	32.6
	7.20	1899	1.1	1.1	33.7
	7.40	1837	1.1	1.1	34.8
	7.50	1934	1.2	1.2	36.0
	7.70	2740	1.6	1.6	37.6
	7.80	1072	.6	.6	38.3
	7.90	1848	1.1	1.1	39.4
	8.00	911	.5	.5	39.9
	8.10	2747	1.6	1.6	41.6
	8.30	2001	1.2	1.2	42.7
	8.40	596	.4	.4	43.1
	8.50	2031	1.2	1.2	44.3
	8.60	2349	1.4	1.4	45.7
	8.70	1226	.7	.7	46.5
	8.80	1030	.6	.6	47.1
	8.90	2136	1.3	1.3	48.3
	9.00	1006	.6	.6	48.9
	9.10	3122	1.9	1.9	50.8
	9.20	2137	1.3	1.3	52.1
	9.30	2055	1.2	1.2	53.3
	9.40	2161	1.3	1.3	54.6
	9.60	2206	1.3	1.3	55.9
	9.70	1064	.6	.6	56.6
	9.80	2226	1.3	1.3	57.9
	9.90	1074	.6	.6	58.5
	10.00	2238	1.3	1.3	59.9
	10.10	2256	1.3	1.3	61.2
	10.20	2232	1.3	1.3	62.6
	10.30	2286	1.4	1.4	63.9
	10.40	1138	.7	.7	64.6
	10.50	7071	4.2	4.2	68.8
	10.60	10794	6.5	6.5	75.3
	10.70	4863	2.9	2.9	78.2
	10.80	2541	1.5	1.5	79.7
	10.90	14113	8.4	8.4	88.1
	11.00	4989	3.0	3.0	91.1
	11.10	6172	3.7	3.7	94.8
	11.20	8683	5.2	5.2	100.0
		-------	-------	-------	
	Total	167317	100.0	100.0	

Valid cases   167317   Missing cases   0

NCDS Data Note - *Employment and Childbearing:* Appendix3 - Page 40

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 NONE
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent
                          .00    126864     75.8     77.5     77.5
                         1.00     36880     22.0     22.5    100.0
                         9.00      3573      2.1   Missing
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  163744     Missing cases   3573

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 SOME
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

                          .00    124282     74.3     75.9     75.9
                         1.00     39462     23.6     24.1    100.0
                         9.00      3573      2.1   Missing
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  163744     Missing cases   3573


 OLEV
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

                          .00    106499     63.7     65.0     65.0
                         1.00     57245     34.2     35.0    100.0
                         9.00      3573      2.1   Missing
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  163744     Missing cases   3573
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 ALEV
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

                          .00    139392     83.3     85.1     85.1
                         1.00     24352     14.6     14.9    100.0
                         9.00      3573      2.1   Missing
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  163744     Missing cases   3573

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 DEGREE
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

                          .00    151422     90.5     92.5     92.5
                         1.00     12322      7.4      7.5    100.0
                         9.00      3573      2.1   Missing
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  163744     Missing cases   3573
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 HIQUAL
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent

                            0      3573      2.1      2.1      2.1
                            1     36880     22.0     22.0     24.2
                            2     39462     23.6     23.6     47.8
                            3     57245     34.2     34.2     82.0
                            4     12030      7.2      7.2     89.2
                            5     12322      7.4      7.4     96.5
                            6      5805      3.5      3.5    100.0
                               -------  -------  -------
                         Total    167317    100.0    100.0

Valid cases  167317     Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 WORKATT1
                                            Valid    Cum
Value Label              Value  Frequency  Percent  Percent  Percent
```

```
                              1.00    12282       7.3      7.3      7.3
                              2.00    89963      53.8     53.8     61.1
                              3.00    33457      20.0     20.0     81.1
                              4.00    30373      18.2     18.2     99.3
                              5.00     1242        .7       .7    100.0
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  167317    Missing cases     0
```

WORKATT2

```
                                                          Valid     Cum
    Value Label             Value  Frequency  Percent  Percent  Percent

                              1.00     1905       1.1      1.3      1.3
                              2.00    29794      17.8     20.9     22.3
                              3.00    19812      11.8     13.9     36.2
                              4.00    85933      51.4     60.4     96.6
                              5.00     4877       2.9      3.4    100.0
                                 .    24996      14.9   Missing
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  142321    Missing cases  24996
```

- -

MATLEAV1

```
                                                          Valid     Cum
    Value Label             Value  Frequency  Percent  Percent  Percent

                               .00   164627      98.4     98.4     98.4
                              1.00     2690       1.6      1.6    100.0
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  167317    Missing cases     0
```

- -

PROFF

```
                                                          Valid     Cum
    Value Label             Value  Frequency  Percent  Percent  Percent

                               .00   163417      97.7     97.7     97.7
                              1.00     3900       2.3      2.3    100.0
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  167317    Missing cases     0
```

- -

INTERMED

```
                                                          Valid     Cum
    Value Label             Value  Frequency  Percent  Percent  Percent

                               .00   148368      88.7     88.7     88.7
                              1.00    18949      11.3     11.3    100.0
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  167317    Missing cases     0
```

- -

ONMAN

```
                                                          Valid     Cum
    Value Label             Value  Frequency  Percent  Percent  Percent

                               .00   157774      94.3     94.3     94.3
                              1.00     9543       5.7      5.7    100.0
                                     -------   -------  -------
                             Total   167317     100.0    100.0

    Valid cases  167317    Missing cases     0
```

SKMAN

```
                                                          Valid     Cum
```

```
Value Label                    Value  Frequency  Percent  Percent  Percent
                                 .00     113725     68.0     68.0     68.0
                                1.00      53592     32.0     32.0    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
SSKILL
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00     147377     88.1     88.1     88.1
                                1.00      19940     11.9     11.9    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 UNSKILL
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00     159862     95.5     95.5     95.5
                                1.00       7455      4.5      4.5    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

CLASSMIS
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00     113379     67.8     67.8     67.8
                                1.00      53938     32.2     32.2    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0
Valid cases  167317      Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

MAGEBTH1  mothers age at first birth lt 20 yrs
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00     125494     75.0     75.0     75.0
                                1.00      41823     25.0     25.0    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

MAGEBTH2  mothers age at first birth 20-24 yrs
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00      88370     52.8     52.8     52.8
                                1.00      78947     47.2     47.2    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0

 MAGEBTH3  mothers age at first birth 25-29 yrs

                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent

                                 .00     126273     75.5     75.5     75.5
                                1.00      41044     24.5     24.5    100.0
                                        -------  -------  -------
                               Total     167317    100.0    100.0

Valid cases  167317      Missing cases      0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MAGEBTH4  mothers age at first birth 30+ yrs
                                                   Valid      Cum
Value Label                    Value  Frequency  Percent  Percent  Percent
```

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```
                                      .00   161877    96.7    96.7    96.7
                                     1.00     5440     3.3     3.3   100.0
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  167317    Missing cases     0

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OWNOCBB
                                                      Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

                                      .00    80334    48.0    53.1    53.1
                                     1.00    70822    42.3    46.9   100.0
                                     9.00    16161     9.7  Missing
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  151156    Missing cases  16161

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
SOCBB
                                                      Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

                                      .00   124010    74.1    82.0    82.0
                                     1.00    27146    16.2    18.0   100.0
                                     9.00    16161     9.7  Missing
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  151156    Missing cases  16161

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 RENTBB
                                                      Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

                                      .00   124022    74.1    82.0    82.0
                                     1.00    27134    16.2    18.0   100.0
                                     9.00    16161     9.7  Missing
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  151156    Missing cases  16161

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -




PARBB
                                                      Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

                                      .00   125102    74.8    82.8    82.8
                                     1.00    26054    15.6    17.2   100.0
                                     9.00    16161     9.7  Missing
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  151156    Missing cases  16161

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OWNOCATB
                                                      Valid     Cum
Value Label                 Value  Frequency  Percent  Percent  Percent

                                      .00    77046    46.0    50.6    50.6
                                     1.00    75261    45.0    49.4   100.0
                                     9.00    15010     9.0  Missing
                                           -------  ------- -------
                                    Total   167317   100.0   100.0

Valid cases  152307    Missing cases  15010

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OCATB
                                                      Valid     Cum
```

```
Value Label                  Value  Frequency  Percent  Percent  Percent
                              .00    118129     70.6     77.6     77.6
                             1.00     34178     20.4     22.4    100.0
                             9.00     15010      9.0   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152307     Missing cases  15010

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  RENTATB

                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00    127769     76.4     83.9     83.9
                             1.00     24538     14.7     16.1    100.0
                             9.00     15010      9.0   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152307     Missing cases  15010

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PARATB
                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00    133977     80.1     88.0     88.0
                             1.00     18330     11.0     12.0    100.0
                             9.00     15010      9.0   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152307     Missing cases  15010

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

OWNOCAB
                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00     75826     45.3     49.7     49.7
                             1.00     76653     45.8     50.3    100.0
                             9.00     14838      8.9   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152479     Missing cases  14838

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OCAB
                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00    112937     67.5     74.1     74.1
                             1.00     39542     23.6     25.9    100.0
                             9.00     14838      8.9   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152479     Missing cases  14838

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  RENTAB
                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00    129201     77.2     84.7     84.7
                             1.00     23278     13.9     15.3    100.0
                             9.00     14838      8.9   Missing
                                     -------   -------  -------
                             Total   167317    100.0    100.0

Valid cases  152479     Missing cases  14838

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PARAB
                                                       Valid    Cum
Value Label                  Value  Frequency  Percent  Percent  Percent

                              .00    139473     83.4     91.5     91.5
                             1.00     13006      7.8      8.5    100.0
                             9.00     14838      8.9   Missing
```

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```
                           -------  -------  -------
                   Total    167317   100.0    100.0

Valid cases  152479     Missing cases  14838

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
PARTED
                                              Valid    Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                         1     49972     29.9     29.9     29.9
                         2     54828     32.8     32.8     62.6
                         3     10326      6.2      6.2     68.8
                         4      9475      5.7      5.7     74.5
                         5      2246      1.3      1.3     75.8
                         6     11312      6.8      6.8     82.6
                         7      3311      2.0      2.0     84.6
                         8         1      .0       .0      84.6
                        99      3849      2.3      2.3     86.9
                       999     21997     13.1     13.1    100.0
                              -------  -------  -------
                   Total    167317   100.0    100.0
Valid cases  167317     Missing cases      0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 JOB
                                              Valid    Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                       .00    123028     73.5     96.7     96.7
                      1.00      1654      1.0      1.3     98.0
                      2.00      2349      1.4      1.8     99.9
                      3.00       181      .1       .1     100.0
                         .     40105     24.0    Missing
                              -------  -------  -------
                   Total    167317   100.0    100.0

Valid cases  127212     Missing cases  40105

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PEDLE18
                                              Valid    Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                       .00     38867     23.2     23.8     23.8
                      1.00    124601     74.5     76.2    100.0
                      9.00      3849      2.3    Missing
                              -------  -------  -------
                   Total    167317   100.0    100.0

Valid cases  163468     Missing cases   3849

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PEDGE19
                                              Valid    Cum
Value Label            Value  Frequency  Percent  Percent  Percent

                       .00    146598     87.6     89.7     89.7
                      1.00     16870     10.1     10.3    100.0
                      9.00      3849      2.3    Missing
                              -------  -------  -------
                   Total    167317   100.0    100.0

Valid cases  163468     Missing cases   3849

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

Part 5:   Job transitions

```
*
freq year to classmis magebth1 to job pedle18 pedge19
fin
select if serial ne '149001L'
select if serial ne '431004Q'
* two cases where I am not sure when their first and only birth stopped
* living with them (c1lliv is wrong)
*
recode job (1,2,3=1)
if (sysmis(job)) job=999
do if (job ne 999)
compute entry=0
compute exit=0
*
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 0))
   entry=entry+1
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 1))
   exit=exit+1
*
if (entry eq 1 and (month ne mthreta)) entry=2
missing values entry exit (99)
end if
*
compute trans=0
do if (job eq 1)
if ((lag(serial) eq serial) and (job eq lag(job)) and (lag(job) eq 1))
   trans=1
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 0))
   trans=2
if (trans eq 2 and month ne mthreta) trans=3
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 999))
    trans=4
end if
do if (job eq 0)
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 1))
   trans=5
if ((lag(serial) eq serial) and (job eq lag(job)) and (lag(job) eq 0))
   trans=6
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 999))
   trans=7
end if
do if (job eq 999)
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 1))
   trans=8
if ((lag(serial) eq serial) and (job ne lag(job)) and (lag(job) eq 0))
    trans=9
if ((lag(serial) eq serial) and (job eq lag(job)) and (lag(job) eq 999))
   trans=10
end if
var labels trans 'job transitions'
val labels trans 1 'cont emp' 2 'first entry' 3 'other entry' 4 'poss entry'
          5 'exit' 6 'cont no emp' 7 'poss exit' 8 'poss exit'
          9 'poss entry' 10 'missing' 0 'first month' freq trans
temp
select if magebth1 eq 1
freq trans
```