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Research Report
Flowcharts for the Integrated Individual-Biography Questionnaire of the IAB-SOEP Migration Sample 2013

SOEP Survey Papers, No. 261

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Flowcharts for the Integrated Individual-Biography Questionnaire of the IAB-SOEP Migration Sample 2013

Klaudia Erhardt
Running since 1984, the German Socio-Economic Panel study (SOEP) is a wide-ranging representative longitudinal study of private households, located at the German Institute for Economic Research, DIW Berlin.

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Introduction

Filters in questionnaires lead to “gaps” in the data, because subgroups of respondents skip certain questions. One main reason for inserting filters into a questionnaire is that it makes no sense to ask some questions to some respondents. For example, it would be inappropriate to ask a respondent who reported being unemployed what her last month’s salary was.

Beyond this, a second factor leads to increasing numbers of filters in questionnaires: the objective of keeping the burden of a participation in the survey as low as possible for the respondents. To this end, surveys avoid as far as possible asking questions where the information can be obtained by other means. For instance, in the IAB-SOEP migration sample, respondents are asked some questions relating to their mother and father only if they do not live in the same household. Otherwise—as the SOEP aims at interviewing every adult household member—the information is obtained by asking the parents themselves.

When using CAPI and online questionnaires, filters can be implemented easily while programming the user interface. As these techniques have spread widely, the filters in questionnaires have become increasingly sophisticated and complex.

For data analysis, it is crucial to keep track of the filter processes that took place during data collection. To know what part of a population the conclusions of the analysis apply to, it has to be unambiguously clear what the reference subgroup is for the distribution of the variables in question. Also, if questions had been skipped with subgroups of the respondents because the information was obtainable from other sources, the relevant information is spread among several variables and has to be collected before analyzing the data. This step also requires awareness of the underlying filters.

As filters grow more and more sophisticated, it becomes increasingly difficult to keep track of them, especially because the skip instructions in the documented questionnaires often do not explain the “does not apply” cases of a variable. To help determine which respondents have been asked a question and which ones have not, this survey paper presents comprehensive flowcharts for the integrated individual-biography questionnaire of wave 2013 of the IAB-SOEP Migration Sample.

How to read the flowcharts

The flowcharts are more or less self-explanatory. However, the meaning of some design elements should be noted:

- Questions are displayed within rectangular boxes framed by a continuous line.
Shapes framed by a dashed line indicate questions or modules outside the module displayed in the current chart.

Questions allowing for multiple responses are represented by light blue rectangular shapes. Questions allowing for multiple responses change the totals from N of respondents to N of answers.

Flows between questions are represented by an arrow that points towards the next question:

\[
\begin{array}{c}
\text{1 yes} \\
N=438
\end{array}
\]

In a few cases, for lack of space, it was not possible to display each flow separately, some had to be depicted as flowing into an other flow. These “confluences” are represented as an arrow with a round tip and a pointed tail:

References to annotations are written in red.

Complex filters are explained in the appendix. In the flowcharts, they are referred to with short labels for the different groups of respondents created by the respective filters.

In general, the difference between the total number of cases (respondents) and the number of cases that enter a question amounts to the number of “does not apply” cases of the variables resulting from that question. (An exception to this rule is described in annotation 3, see Appendix A). Thus the flowcharts provide a means of following each respondent group through the questionnaire and to see precisely which groups make up the “does not apply” cases.

**Abbreviations used in the flowcharts**

- biDE: born in Germany
- boDE: born outside of Germany
- DE: Germany
- FRG: Federal Republic of Germany (former “West Germany”)
- GDR: German Democratic Republic (former “East Germany”)
- hh: household
- n.a.: no answer
Related documents

- The original questionnaires are reproduced as SOEP Survey Paper No. 218 (see SOEP Survey Paper No. 219 for an English translation).

- Useful for understanding the variables of the migration biography are the two synopses, pp. 15 and 16 in: Klaudia Erhardt. 2014. How to Generate Spell Data from Data in “Wide” Format (SOEP Survey Paper No. 228).

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1 In wide format the migration biography is part of the dataset bdp_mig. The dataset migspell contains the migration biography in spell format. Both datasets are part of the IAB-SOEP Migration Sample 2013
Citizenship and origin
Part 1: Questions 1-8

EVERYONE N=4.964
Q2 bdpm_l_0201
  Born in DE?
  1 yes
  N=1.254
  2 no
  N=3.710

Q5 bdpm_p_05
  Both parents born in DE?
  2 no
  N=945
  1 yes
  N=308
  2 no
  N=905

Q6 bdpm_l_06
  Both parents came as displaced persons?
  1 yes
  N=16
  2 no
  N=929

Q7 bdpm_l_07
  At least 1 grandparent from GR, SP, IT, TR, YUG?
  2 no
  N=929
  1 no.
  -1 n.a.
  N=1

Q8 bdpm_l_0801 ff.
  From where?
  1 no.
  -1 na
  N=309
  1 yes
  N=16

EVERYONE N=4.964
Q9 bdpm_p_09
  German citizenship?
  N=16
  N=309
  N=929
  cont.
Citizenship and origin
Part 2: Questions 9-15

EVERYONE N=4.964

Q9 bdpm_p_09
German citizenship?

1 yes, since birth
N=877

2 yes, but not since birth
N=1,565

3 no
N=2,522

Q11 bdpm_p_11
German citizenship since when (year)?

Q12 bdpm_p_1202
Previous citizenship?

Q13 bdpm_p_1301
Dual citizenship?

1 yes
N=610

2 no
N=1,824

-1 n.a.
N=8

Q13 bdpm_p_1303
Which second citizenship?

N=610

EVERYONE N=4.964

if Q2 = 2 no
(born outside DE)

N=3,710

Q16 ff.
Migration biography
“Coming to DE”

if Q2 = 1 yes
(born in DE)

N=1,254

Q28 ff.
Migration biography
“Stays abroad”
Migration biography: Coming to Germany Questions 16-26

if Q2 bdpm_I0201=2 born outside DE
N=3.710

Q16 bdpm_I01_1601, bdpm_I01_1602
When 1st move from birth country?

Q17 bdpm_I01_1701
Move to DE or to other country?

loop part 1
stays abroad

Q22 bdpm_IX_2201
Status when coming
N=602 (X=01)

Q23 bdpm_IX_2301
Moved again to other country?
1 DE
N=450 (X=01)
2 birth country
N=80 (X=01)
3 other country
N=68 (X=01)
N=X+1

X=X+1

Q24 bdpm_IX_2401
bdpm_IX_2402
Moved when?
N=450 (X=01)

Q25 bdpm_IX_2501
Status when coming
N=380 (X=01)
1 job promise
N=70 (X=01)

Q26 bdpm_IX_26
Labor force group?

loop part 2
stays in DE

Q18 bdpm_I01_1801
Status when coming
everyb. else
N=3.109

Q19 bdpm_I01_19
Labor force group

Q20 bdpm_IX_2001
Moved again away from DE?

Q21 bdpm_IX_2101
bdpm_IX_2102
Moved when?
N=203 (X=01)

Q23 bdpm_IX_2303
To which country?

Exit:
X N
01 3.108
02 408
03 128
04 33
05 20
06 8
07 3
12 1
3.709

1 no
N=3.108 (X=01)

Q27 bdpm_I_27
Support when immigrating to DE?

N=3.710

Q34 ff.
Cultural Ties, Language and Social Community
Migration biography:
Stays abroad
Questions 28-33

see annotation A2 (Appendix A)
Cultural ties, language and social community
Part 1: Questions 34-46

Everyone N=4,964
f1(A+B+C+D+E+F+G+H)

Filter F1
f1(A+B+C+D+E)
N=4,580

Q34 bdpm_p_3401
Visit country of origin within last 2 years?

Visits* N=2,721
N=2,721

Q35 bdpm_p_35
How much at home in country of origin?

Q36 bdpm_p_36
Want to stay in DE forever?

2 no, 3 don’t know N=1,196
N=1,196*

f1(F) N=75

Q2=2 born outside DE
f1(A+B+F)
N=3,710

Q38 - Q39 bdpm_p_3801 thru bdpm_p39
Knowledge of German before coming to DE

N=3,635

Q40 bdpm_p_4001 ff.
Current knowledge of German

N=4,564

Q41 – Q43 bdpm_p_4104 thru bdpm_p_4303
Language of origin and further language knowledges

N=4,580

Everyone N=4,964
Q44 – Q46 bdpm_p_4401 thru bdpm_p_46
Social contacts to Germans

Filter definitions (e.g. F1, f1(A+B+...)) see: Appendix B

annotation A3 see: Appendix A

cont.
Cultural ties, language and social community
Part 2: Questions 47-49

Everyone N=4.964
\( f_1(A+B+C+D+E+F+G+H) \)

Filter \( F_1 \)
\( f_1(A+B+C+D+E) \)
N=4,580

Q47 bdpm_p_47
Been disadvantaged in DE because of foreign origin?
N=2,278

Q48 bdpm_p_4801 thru bdpm_p_4803
Disadvantaged in:
- apartment seeking
- job seeking
- agencies and authorities
N=2,278

Q48 bdpm_p_4804
Disadvantaged in interactions with the police
N=1,322

Q48 bdpm_p_4805
Disadvantaged at school in DE
N=1,322

Q48 bdpm_p_4806
Disadvantaged in every day life
N=1,850

Q48 bdpm_p_4807
Disadvantaged at work
N=1,850

Everyone N=4,964
bdpm_p_49
Regular contact with friends outside DE?

bdpm_p_47
Been disadvantaged in DE because of foreign origin?
N=2,278

bdpm_p_4801 thru bdpm_p_4803
Disadvantaged in:
- apartment seeking
- job seeking
- agencies and authorities
N=2,278

bdpm_p_4804
Disadvantaged in interactions with the police
N=1,322

bdpm_p_4805
Disadvantaged at school in DE
N=1,322

bdpm_p_4806
Disadvantaged in every day life
N=1,850

bdpm_p_4807
Disadvantaged at work
N=1,850

Everyone N=4,964
bdpm_p_49
Regular contact with friends outside DE?

cont.
Childhood and parental home
Part 1: Questions 50-57

Annotations A3 and A4
see: Appendix A

Filters (→ Q2):
biDE born in Germany,
N = 1.254
boDE born outside of Germany,
N = 3.710

Everyone N=4.964
Q50 bdpm_l_50
Where spent childhood?

biDE
N=1.254

boDE
N=3.710

Q51 bdpm_l_51
Still living there?

N=1.254

Q52 bdpm_l_5201 thru
bdpm_l_5209*
How many years of childhood spent with different persons?
* → A4

boDE +
bdpm_l_51 = -1 n.a.
N=3.711

Q53 bdpm_l_53
Where lived before 1989?

N=1.253

Q54 bdpm_l_5401, bdpm_l_5209*
How many siblings?
* → A3

N sibl. = 0
-1 n.a.
N=387

N sibl. > 0
N=4.577

Q55 bdpm_p_5501,
bdpm_p_5502*
Position within sequence of siblings
* → A33

Everyone N=4.964
Q56 thru Q57
sports and musical activities

cont. Q58 ff.
Childhood and parental home
Part 3: Questions 64-67

Q64 bdpm_l_6401
Father completed secondary schooling in DE or abroad?

father not in hh
N=4,260

Q64 bdpm_l_6402
Mother completed secondary schooling in DE or abroad?

mother not in hh
N=4,065

Q65 bdpm_l_6501
Father completed which level of sec. schooling in DE?

1 in DE
N=426

N=1,007
3 no grad.
2 abroad
N=2,827

Q65 bdpm_l_6502
Mother completed which level of sec. schooling in DE?

1 in DE
N=470

N=1,147
3 no grad.
2 abroad
N=2,448

Q66 bdpm_l_6601
Father completed which level of sec. schooling abroad?

N=1,007

Q67 bdpm_l_6701
Father completed vocational training or university degree?

N=2,827

Q67 bdpm_l_6702
Mother completed vocational training or university degree?

N=426

N=1,147

Q68
Pers. history starting at age 15
(N=4,984)

cont. Q69
Education
Part 1: Questions 69-77

EVERYONE N=4,964
Q69 bdpm_l_6901, bdpm_l_6902
Last year of school attendance*
* → A3

N=4,728

Q70 bdpm_l_70
Where did you last attend school?

1 FRG
N=1,888

3 other country
N=2,754

Q71 bdpm_l_71
How many years did you attend school?

N=2,754

Q72 bdpm_l_72
What type of certificate did you attain?

N=2,754

Q73 bdpm_l_7302
In which German Bundesland did you last attend school?

N=1,888

2 GDR
N=48

Q74 bdpm_l_7401
What type of certificate did you attain?

N=1,936

Q75 bdpm_l_75
How many fellow students or their parents were not from DE?

N=2,210

Q76 bdpm_l_76
Plan to attain another school certificate?

N=2,754

1 yes
2 maybe
N=654

3 no, -1 n.a.
N=4,310

EVERYONE N=4,964
Q78 bdpm_p_78
Currently education or training?

N=654

cont.
EVERYONE N=4.964
Q78 bdpm_p_78
Currently education or training?

Q80 bdpm_I_80
Completed vocational training or university study in DE?

Q79 bdpm_p_7901, bpm_p_7902
bdpm_p_7907, bpm_p_7909
bdpm_p_7911
What type?

Higher educ.
N=237

Q79 bdpm_p_7903 - bdpm_p_7907
Receive grant or scholarship?*
* → A3

EVERYONE N=4.964
Q81 Kind of training or study?
Multiple responses
N answers=1.523 from 1.418 respondents

Education
Part 2: Questions 78-81

bdpm_I_8101 Apprenticeship with degree
bdpm_I_8102 Attained when?

bdpm_I_8104 Full time voc. school, comm. college etc.
bdpm_I_8105 Attained when?

bdpm_I_8107 Higher level trade or technical school
bdpm_I_8108 Attained when?

bdpm_I_8110 Training for civil servants
bdpm_I_8111 Attained when?

bdpm_I_8114 Technic. or prof. oriented college
bdpm_I_8115 Attained when?

bdpm_I_8118 University or university level degree
bdpm_I_8119 Attained when?

bdpm_I_8122 Doctoral studies
bdpm_I_8123 Attained when?

bdpm_I_8126 Other degree
bdpm_I_8127 Attained when?

EVERYONE N=4.964
Q82 bdpm_I_82
Vocational training or university study outside DE?

c cont.
Vocational training or higher education in other countries than DE
Part 1: Questions 82-83

Annotation:
Q82 thru Q83 determine if and in which year respondents passed a training in another country than Germany. The following questions Q84 thru Q94 relate to the trainings, translated in a separate set of variables for each of the seven kinds of trainings (eight, including "no answer").

The variable names of these sets have an index ranging from 1 to 8 to indicate to which kind of training the variables belong, marked red in the flow chart.

The flow charts for Q84 thru Q94 on the following pages show an "X" in place of the index. The Ns for each variable are indicated as "N(X1)=.., N(X2)=.." and so on. N(X8) is not displayed, because it is always zero.

Please note: N(Xi) refers to answers, not to cases (respondents).

Besides the detailed flow chart for Q84 thru Q94 a summarized flow chart is supplied, showing the sums of N but not the Ns for each kind of training. This version might be useful for an overview of the filtering.

EVERYONE N=4.964
Q82 bdpm_l_82 Voc. train. or univ. study outside DE?

1 yes N=1,631

- Multiple responses N of answers=1.769

Q83 Kind of training?

Q83: bdpm_l_8301 In-house training
bdpm_l_8302 When?

bdpm_l_8303 appren-
ticeship in cny.
bdpm_l_8304 When?

bdpm_l_8305 Vocatio-
nal school
bdpm_l_8306 When?

bdpm_l_8307 Univ./
college with prac-
tical orient.
bdpm_l_8308 When?

bdpm_l_8301 Univ./
college with theo-
retical orient.
bdpm_l_8302 When?

bdpm_l_8301 Docto-
rnal studies
bdpm_l_8302 When?

bdpm_l_8301 Other
bdpm_l_8302 When?

Q95 Planning future trainings?

please note:
Q84 thru Q94
bdpm_l8_84 thru bdpm_l8_94
-2 not applicable for all cases

N=1.768 Q84ff. cont.
Vocational training or higher education in other countries than DE
Part 2: Questions 84-94
(summarized version)

Q84 bdpm_IX_84
Certificate of successful completion?

Q85 bdpm_IX_85
Applied for recogn. of the degree in DE?

Q86 bdpm_IX_8601
bdpm_IX_8602
Month/year of applic.

Q87 bdpm_IX_8701
bdpm_IX_8702
Mnth/year of recogn.

Q88 bdpm_IX_88
Deciding institution?

Q89 bdpm_IX_89
Degree recognized?

Q90 bdpm_IX_90
Recognized degree equiv. to orig. degr.?

Q91 bdpm_IX_91
Sugg. of return-to-learn program?

Q92 bdpm_IX_92
Already completed ret.-to-learn progr.?

Q93 bdpm_IX_93
Who was/is offering ret.-to-learn progr.?

Q94 bdpm_IX_94
Why not apply for recogn. of degree?

Q95 bdpm_IX_95
Planning future trainings?

Q96 bdpm_IX_96
Certificate of successful completion?

Q97 bdpm_IX_97
Applied for recogn. of degree in DE?

Q98 bdpm_IX_98
Month/year of applic.

Q99 bdpm_IX_99
Year of recogn.

Q100 bdpm_IX_100
Deciding institution?

Q101 bdpm_IX_101
Degree recognized?

Q102 bdpm_IX_102
Recognized degree equiv. to orig. degr.?

Q103 bdpm_IX_103
Sugg. of return-to-learn program?

Q104 bdpm_IX_104
Who was/is offering ret.-to-learn progr.?

Q105 bdpm_IX_105
Why not apply for recogn. of degree?

Q106 bdpm_IX_106
Month/year of applic.

Q107 bdpm_IX_107
Year of recogn.

Q108 bdpm_IX_108
Deciding institution?

Q109 bdpm_IX_109
Degree recognized?

Q110 bdpm_IX_110
Recognized degree equiv. to orig. degr.?

Q111 bdpm_IX_111
Sugg. of return-to-learn program?

Q112 bdpm_IX_112
Who was/is offering ret.-to-learn progr.?

Q113 bdpm_IX_113
Why not apply for recogn. of degree?

Q114 bdpm_IX_114
Month/year of applic.

Q115 bdpm_IX_115
Year of recogn.

Q116 bdpm_IX_116
Deciding institution?

Q117 bdpm_IX_117
Degree recognized?

Q118 bdpm_IX_118
Recognized degree equiv. to orig. degr.?

Q119 bdpm_IX_119
Sugg. of return-to-learn program?

Q120 bdpm_IX_120
Who was/is offering ret.-to-learn progr.?

Q121 bdpm_IX_121
Why not apply for recogn. of degree?

Q122 bdpm_IX_122
Month/year of applic.

Q123 bdpm_IX_123
Year of recogn.

Q124 bdpm_IX_124
Deciding institution?

Q125 bdpm_IX_125
Degree recognized?

Q126 bdpm_IX_126
Recognized degree equiv. to orig. degr.?

Q127 bdpm_IX_127
Sugg. of return-to-learn program?

Q128 bdpm_IX_128
Who was/is offering ret.-to-learn progr.?

Q129 bdpm_IX_129
Why not apply for recogn. of degree?

Q130 bdpm_IX_130
Month/year of applic.

Q131 bdpm_IX_131
Year of recogn.

Q132 bdpm_IX_132
Deciding institution?

Q133 bdpm_IX_133
Degree recognized?

Q134 bdpm_IX_134
Recognized degree equiv. to orig. degr.?

Q135 bdpm_IX_135
Sugg. of return-to-learn program?
Employment
Part 1: Questions 97-118

Q97 - Q101 EVERYONE N=4,964
f4(A+B+C+D+E+F)
Q102 bdpm_p_102
Current employment status

Filter F4
f4(A+B+C)  
(econ. active)  
N=3,271

Q105 bdpm_p_105
Job corresponds to training?
Q106 bdpm_p_106
What type of training required?
Q107 bdpm_p_10701 thru bdpm_p_10704
What type of introd. training required?  
(mult. resp. possible,  
N answers=3.707, N no answer=51)
Q108 bdpm_p_108
Is current income just?
Q109 bdpm_p_10901 thru bdpm_p_10909
Current occupational status?

Q110 bdpm_p_110
Public sector employer?
Q111 bdpm_p_111
Temporary employment agency?
Q112 bdpm_p_112
Fixed-term or permanent employment contract?

Q113 bdpm_p_113
Community work or 1-Euro-Job?

Q114 bdpm_p_11401, bdpm_p_11402
Month/year begin of current employm.

Q115 bdpm_p_115
How many employees in company?

Filter F4
f4(D+F) 
(econ. inactive)  
N=1,692

Filter definitions
(e.g. F4, f4(A+B+...))  
see: Appendix B

Annotation A3
see: Appendix A

No filters in Q97 - Q101 (bdpm_l_9701 - bdpm_p_101)

- bdpm_l_9701, bdpm_l_9702  \( \rightarrow \) A3
- Q98 - Q99 answer "no" filled in automatically if Q97 has been answered “Have never been employed”.

Q116 bdpm_p_116
How many employees in company are not from DE?

Q117 bdpm_p_11701; bdpm_p_11701*
Distance home – work
Q118 bdpm_p_11801; bdpm_p_11801*
hrs/week accord. to work contr.

\( * \rightarrow A3 \)
Employment
Part 2: Questions 119-126

Economically active persons N=3,271

Filter F4
f4(A+B+C)
N=3,271

Q119 bdpm_p_11901
Average weekly working hrs incl. overtime
f4(A+B+C) &
< 30 hrs, -1 n.a.
N=2,440

Q120 bdpm_p_120
Is your job a "Mini"- or "Midi"-job?

Filter definitions
(e.g. F4, f4(A+B,...)
see: Appendix B

Q121 bdpm_p_121
Do you happen to work overtime?
f4(A+B+C) &
1 yes
N=1,736

Q122 bdpm_p_122
Working hours account for overtime?

Q123 bdpm_p_123
Compensation for overtime?

1 yes
N=1,736

Q124 bdpm_p_12401
Did overtime last month?

1 yes
N=1,169

Q124 bdpm_p_12402
How many hours?
f4(A+B+C) &
ov.time last month &
ov.time not paid (Q123)
N=513

Q124 bdpm_p_12403
How many paid hours?

Q126 bdpm_p_12601, bdpm_p_12601
Gross / net income from work last month

Q125 bdpm_p_12403
Working place is in which part of DE?

Q127

Filter F4
f4(D)
(econ. inactive)
N=1,692

Filter F4
f4(E)
N=1

N=831

N=831

N=513

N=513
Employment
Part 3: Questions 127-135

Filter definitions
(e.g. F4, f4(A+B+...))
see: Appendix B

annotation A3
see: Appendix A

Economically inactive persons

Filter F4
f4(D+F)
N=1.692

Q127 bdpm_p_127
Intend future employment?

f4(D+F) &
1 no, -1 n.a.
N=89

Q152 ff.
Partnership

f4(D) &
1 no, -1 n.a.
& biDE
N=38

Q147 flow 1

Q132 bdpm_p_132
How much hours would you have to work for that income?

amount stated
N=863

no amount stated
N=482

Q133 bdpm_p_133
Could you start working within the next two weeks?

N=1.345

Q134 bdpm_p_134
Actively been looking for work within the last four weeks?

1 yes
N=438

Q135 bdpm_p_135
Ever received a placement voucher?

2,-1 &
f4(F)
N=365

Q152 ff.
Partnership

f4(F)
N=75

Q147 flow 2

2,-1 &
f4(D) &
biDE
N=132

Q136

2,-1 &
f4(D) &
boDE
N=410

N=287
Employment
Part 4: Questions 136-142

Filter F4
f4(A+B+C+E)
& biDE

N=829

Q136 bdpm_p_13601 - bdpm_p_13610*
How did you find first job in DE?

* \( \rightarrow \) A3, A5

f4(A+B+C+E)
& boDE
& worked in DE
N=2,412

Q137 bdpm_p_137
Still same type of work as in first job in DE?

1 yes, -1 n.a.
N=1,684

Q138 bdpm_p_138
Still same occupational status as in first job in DE?

1 yes, -1 n.a.
N=1,410

Q139 bdpm_p_139
Still same same employer as in first job in DE?

1 yes, -1 n.a.
N=1,041

Q140 bdpm_p_140
Changed profession one or more times since first job in DE?

N=2,200

Q141 bdpm_p_141
Work situation improved during your work history in DE?

N=2,412

Q142 bdpm_p_13601 - bdpm_p_13610
Been employed in the year before moved to DE?

N=948

Filter F4
f4(A+B+C+D+E)
& boDE

N=3,360

Filter definitions (e.g. F4, f4(A+B+...)) see: Appendix B
annotations A3, A5 see: Appendix A
**Employment**

**Part 5: Questions 142-151**

**Filter definitions**
(e.g. F4, f4(A+B+...))
see: Appendix B

**Annotations A3, A6**

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**Q142 bdpm_p_142**
Been employed in the year before moved to DE?

- 1 yes
  - N=1,921
- 2 no
  - 1 n.a.
  - (boDE) N=1,439

**Q143 bdpm_p_143**
Occupational status before moved to DE

- f4(A+B+C+E) & boDE & Q142=yes
  - N=1,921

**Q144 bdpm_p_144601, bdpm_p_14402**
Last net income before mov. to DE

  - * → A3

**Q145 bdpm_p_145**
How many hours did you work per week?

**Q146 bdpm_p_146**
Work situation improved after moving to DE?

- f4(D) & boDE & Q142=yes & worked in DE
  - N=402 → A6
- f4(D) & boDE & Q142=yes & never worked in DE
  - N=148

**Q147 bdpm_l_147**
In what year were you last employed in DE?

- N=648 → A6

**Q148 bdpm_l_148**
Last job was fulltime, part-time, marginal?

**Q149 bdpm_l_149**
Did company of last job in DE belong to public sector/administr.?

**Q150** not included in scientific use file

**Q151 bdpm_l_15101 - bdpm_l_15101**
Occupational status in last job in DE

  - → A6
Income
Part 1: Questions 161-165

EVERYONE N=4.964

Q161 bdpm_p_16101 - bdpm_p_16127*
Forms and amount of current income
(transfer income, without income from work)
Multiple responses. N of answers = 1.480 from 1.357 respondents

N=4,964

Q162 bdpm_p_162a01 - bdpm_p_162p01*
Forms and amount of last year income
(including income from work)
Multiple responses. N of answers for all types of income = 5.616

bdpm_p_162a01=1
(with income from employed work)
N=3.151 answers

bdpm_p_162d01 or bdpm_p_162e01=1
(with retirement/pension)
N=156 answers

else
N=2.309 answers

Q163 bdpm_p_16301 - bdpm_p_16313*
Extra pay or bonuses from employer in the last year?

Q164 bdpm_p_16401, bdpm_p_16402*
Extra pay to cover expenses for travelling to and from work? Amount?

* \(\rightarrow\) A3

Q165 bdpm_p_16501 - bdpm_p_16520*
Who pays pension/retirement, and monthly amount in the last year?

EVERYONE N=4.964

Q166 ff. Financial support to others outside the household

annotation A3
see: Appendix A
Income  
Part 2: Questions 166-169

EVERYONE N=4,964
Q166: Given financial support to others outside this household? How much? Recipient lives in DE or abroad?

Multiple responses
N of yes answers = 774 from 691 respondents

- N=429
- bdpm_p_16601 thru bdpm_p_16604
  Parents (-in law)

- N=126
- bdpm_p_16605 thru bdpm_p_16608
  Children

- N=19
- bdpm_p_16609 thru bdpm_p_16612
  (Ex-) Spouse

- N=166
- bdpm_p_16613 thru bdpm_p_16616
  Other relatives

- N=34
- bdpm_p_16617- bdpm_p_16620
  Non-relatives

bdpm_p01_167
Main aim of support?

bdpm_p01_168
How transferred abroad?

bdpm_p01_169
Fees of the transfer

N=429 (answ.)

N=126 (answ.)

N=19 (answ.)

N=166 (answ.)

N=34 (answ.)
Satisfaction, health and sickness, and 
Attitudes and religion
Questions 171-193
filtering is transparent and easy to understand, except for 
question 191

![Flowchart](https://via.placeholder.com/150)

Previous questions
Everyone N=4,964
f1(A+B+C+D+E+F+G+H)

Filter F1
f1(A+B+C+D+E)
N=4,580

Q191 bdpm_p_191
Feel how connected with 
country of origin?
N=4,580

Everyone N=4,964
Q192 bdpm_p_192
Self assessment: risk averse 
or risk prone?

Question 193
Appendix A: Annotations

A1 Annotation to the migration biography, section “Coming to Germany”

The variable names contain X as a two-digit marker for the respective loop transit number. With each transit over one of the two interlaced loops (one for stays in DE and one for stays in other countries) X is increased by 1. At any one time the “does not apply” group in the loop variables is composed of a) the 1,254 German-born respondents who skip the whole battery of questions, b) the respondents who already exited the loop, and c) the respondents who passed the loop transit in the other one of the interlaced loops.

The loop is exited once and for all when the answer to Q20 is: “no, have not moved any more, stayed in DE up to now.” The “exit” list in the right lower corner shows how many respondents exited with each loop transit. This ought to add up to 3,710 (all respondents born outside DE), but the sum is only 3,709. This is because the maximum of 15 loop transits provided were not enough for one respondent. In consequence, for this person, it cannot be established which moves happened after the first 15 moves and when the last move to DE took place.

A2 Annotation to the migration biography sections “Coming to Germany” and “Stays abroad”

Synopsis 1 and synopsis 2 of the documentation “How to Generate Spell Data…” (SOEP Survey Paper No. 228) further illustrate the structure of the migration biography data.

Especially for the section “Coming to Germany”, synopsis 2 help to clarify at what point in the loop the marker for the transit number changes. The marker is notated “X” in the variable names in the flowcharts. Please note that in section “Coming to Germany” of the migration biography, the marker is not the same for every variable in the same loop transit.

The structure of the section “Stays abroad” is much easier to understand. The marker in the variable names changes with each loop transit. All variables belonging to the same loop transit have the same marker.

A3 Annotation to value “-2 not applicable”

Sometimes the value “-2” stands not only for “-2 not applicable” but also for “the answer is to be found in the next variable(s)”. Often this is the case if a question asks for the occurrence of something and at the same time for the number or quantity of the
occurrences, while the answers are coded in two or more variables. Examples of this are questions 34 and 37. This is also the case with multiple-response questions.

Normally, the flowcharts explain the number of “-2” values of each variable as the sample size minus the sum of the “N”s of those groups that encounter a variable (i.e., that do not skip a question due to filtering). But if the value “-2” stands for something other than “-2 not applicable (due to filtering)”, this no longer holds. To eliminate the ambiguity of the value -2, one could recode the variables so as to assign semantically appropriate codes to “-2” values that do not stand for “not applicable”.

A4 Annotation to question 52 (bdpm_l_5201 through bdpm_l_5209)

Variables bdpm_l_5201 through bdpm_l_5208 show which person the respondent lived with during the first 15 years of his or her life. The values add up to 15 for each respondent except for respondents who refused to answer. The variables take on the value “-2” if the respondent spent the 15 years with other persons than the person that the specific variable represents.

If a respondent did not answer question 52 at all, variable bdpm_l_5209 takes on the value “-1” and otherwise “-2”.

A5 Annotation to question 136 (bdpm_p_13601 through bdpm_p_13610)

The question allows for multiple answers.

Some of the respondents have the value “-2 does not apply” in all variables bdpm_p_13601 through bdpm_p_13610, although they satisfy the filter conditions for question 136. They have probably been asked question 136, but none of the categories applied. The instrument ought to have provided the category “other” to capture such cases and make them distinguishable from the respondents who really skipped that question.

A6 Annotation to question 147 through 151

The one additional case in the data compared to the flow that leads to question 147 (and following) is caused by a very unusual combination of values for one person, which was not captured by the filter conditions. This one respondent had been led to question 147 although the logic of the filter would have required him to skip the question. As the flowcharts have to show flows and filter conditions at the same time, it seemed preferable to specify the logical frequencies instead of the true frequencies for the remaining questions in the employment module.
Appendix B: Filter Definitions - Description of Complex Filters

**Filter F1 in module “Cultural ties, language, and social community”**

**F1** \([Q2=2 \text{ and } (Q9=2,3,KA \text{ or } Q18=2 \text{ or } Q25=2)] \text{ or } [Q6=2 \text{ or } Q7=1]\)

- **Included**: f1(A+B+C+D+E), excluded: f1(F+G+H)
- **f1A** Group A: not German-born & no German citizenship or German citizenship not since birth, respectively. (N=3.476)
- **f1B** Group B: not German-born & German citizenship since birth & Aussiedler (ethnic German from Eastern European Country) (N=159)
- **f1C** Group C: German-born & parents not German-born, but not World War II refugees (N=929)
- **f1D** Group D: German-born & parents German-born & grandparents from IT, SP, GR, former YUG, TR (N=14)
- **f1E** Group E: German-born & parents Aussiedler & grandparents from IT, SP, GR, former YUG, TR (N=2)
- **f1F** Group F: not German-born & German citizenship since birth & not Aussiedler (N=75)
- **f1G** Group G: German-born & parents German-born or no answer & grandparents not from IT, SP, GR, former YUG, TR or no answer (N=295)
- **f1H** Group H: German-born & parents World War II refugees & grandparents not from IT, SP, GR, former YUG, TR (N=14)

**Filter F2, questions Q61 and Q62 in module “Childhood and parental home”, path “father not living in household”**

**F2** \([Q58=3,4 \text{ and } Q2=1 \text{ and } Q6=2]\)

- **f2A** German-born & parents not World War II refugees & father not living in household (N=639)
- **f2B** Not German-born & father not living in household (N=3.307)
- **f2C** German-born & father not living in household & parents are World War II refugees (N=15)
- **f2D** German-born & father not living in household & (both parents born in DE or no answer if both parents are born in DE (N=299)
- **f2E** Father living in household (N=704)
Filter F3, questions Q61 and Q62 in module “Childhood and parental home”, path “mother not living in household”

F3 [Q58=2,4 and Q2=1 and Q6=2]

f3A German-born & parents not World War II refugees & mother not living in household (N=556)

f3B Not German-born & mother not living in household (N=3,196)

f3C German-born & mother not living in household & parents are World War II refugees (N=16)

f3D German-born & mother not living in household & (both parents born in DE or no answer if both parents are born in DE (N=297)

f3E Mother living in household (N=899)

Filter F4 in module “Employment”

F4 economically active / inactive (according to Q102, Q109, Q97).
Economically active: all kinds of employment (Q102=1,2,3,4,8). Economically inactive: Partial retirement with zero working hours, voluntary military service, volunteer service, not employed (Q102=5,6,7,9).

f4A Group A: Economically active persons (Q102=1,2,3,4,8), without freelancers, self-employed persons, and family members working for self-employed relative (according to Q109) (N=3,007).

f4B Group B: Freelancers, self-employed persons without employees, family members working for self-employed relative (according to Q109) (N=173).

f4C Group C: Freelancers, self-employed persons with employees (according to Q109) (N=91)

f4D Group D: Economically inactive persons without persons in partial retirement, phase with zero working hours and without persons who have never been employed (Q102=6,7,9 & Q97 not 1) (N=1,163)

f4E Group E: Persons in partial retirement, phase with zero working hours (Q102=5) (N=1)

f4F Group F: Economically inactive persons who have never been employed (Q102=6,7,9 & Q97= 1) (N=529)
Please contact the author if you have questions and suggestions, or if you encounter any errors in the flowcharts.