

## Control

Questionnaire EA,COMP,HH  
Area-Structure LGA,DIS,URRU  
Max-records GPC 1  
HOUSE 1  
POP 700

## Tables

da01(18,10)  
da02(36,10)  
da03(45,10)  
da04(3,7)  
da05(3,15)  
da06(15,3)  
da07(54,6)  
da08(9,12)  
da09(5,4)  
da10(1,12)  
da11(54,4)  
da12(1,9)  
da13(6,9)  
da14(24,4)  
da15(45,16)  
da16(45,16)  
da17(57,10)  
.da18(18,10)  
da19(9,12)  
da20(18,10)  
da21(45,10)

## Variables

X09A, XX09A, IND, X10A, XX10A

For-each (POP)

CALL RECFOR

CALL da01  
CALL da02  
CALL da03  
CALL da04  
CALL da05  
CALL da06  
CALL da07  
CALL da08  
CALL da09  
CALL da10  
CALL da11  
CALL da12  
CALL da13  
CALL da14  
CALL da15  
CALL da16  
CALL da17  
.CALL da18  
CALL da19  
CALL da20  
CALL da21

SUBROUTINE RECFOR

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IF P09A<>BLANK
LET X09A=P09A
END-IF
IF P10A<>BLANK
LET X10A=P10A
END-IF
IF P09A=10:12 AND P09B=BLANK
LET X09A=P09A+80
END-IF
IF P09A=20:21 AND P09B=BLANK
LET X09A=P09A+73
END-IF

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IF P10A=10:12 AND P10B=BLANK
LET X10A=P10A+80
END-IF
IF P10A=20:21 AND P10B=BLANK
LET X10A=P10A+73
END-IF
IF P09A=BLANK
LET X09A=100
END-IF
IF P10A=BLANK
LET X10A=100
END-IF

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END-SUBR RECFOR

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SUBROUTINE da01
UNIVERSE GRP=1 AND P03=2:99

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RECODE P03 to row 2:9,2 10:19,3 20:39,4 40:59,5 60:99,6 others,1
let row=row+(p02*6)

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tally da01(row,1)

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IF P12A=1:8 or p12b=1:8
TALLY da01(row,2)
END-IF

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IF P12A=1:8
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da01(row,COL)
END-IF
IF P12b=1:8
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da01(row,COL)
END-IF

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END-SUBR da01

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SUBROUTINE da02
UNIVERSE GRP=1 AND P03=2:99 and p05=0

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recode p06 to row 0,2 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 9,11 others,12

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let row=row+(p02*12)

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tally da02(row,1)

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IF P12A=1:8 or p12b=1:8
TALLY da02(row,2)
END-IF

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IF P12A=1:8
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da02(row,COL)
END-IF
IF P12b=1:8
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da02(row,COL)
END-IF

END-SUBR da02

SUBROUTINE da03
UNIVERSE GRP=1 AND P03=2:99

recode p05 to row 0,2 10,3 11,4 12,5 13,6 14,7 15,8 16,9 17,10 18,11 19,12
                20,13 21,14 others,15

let row=row+(p02*15)

tally da03(row,1)

IF P12A=1:8 or p12b=1:8
TALLY da03(row,2)
END-IF

IF P12A=1:8
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da03(row,COL)
END-IF
IF P12b=1:8
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da03(row,COL)
END-IF

END-SUBR da03

SUBROUTINE da04
UNIVERSE GRP=1 AND P03=12:99 and (p12a=1:8 or p12b=1:8)

recode p20 to col 1,2 2,3 3,4 4,5 5,6 others,7
LET ROW=P02+1
TALLY da04(ROW,col)
END-SUBR da04

SUBROUTINE da05
UNIVERSE GRP=1 AND P03=3:99 and (p12a=1:8 or p12b=1:8)

IF P13A=1
let col=2
END-IF

IF P13A<>1
RECODE P13B TO col 0,3 1:6,4 7:09,5 10:13,6 21:23,7 31:37,8 41:43,9 51:54,10
                61:64,11 70,12 80,13 81:86,14 others,15
END-IF
LET ROW=P02+1
TALLY da05(ROW,col)
END-SUBR da05

segment

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SUBROUTINE da06
UNIVERSE GRP=1 AND P03=7:99 and (p12a=1:8 or p12b=1:8) and
    (P16A=1 OR P16A=2 OR (P16A=3 AND P16C=1) OR
    (P16A=4 AND P16B=1) OR (P16A=4 AND P16B=2 AND P16C=1) OR
    (P16A=6 AND P16B=1) OR (P16A=6 AND P16B=2 AND P16C=1))

let col=p02+1
RECODE P17 TO ROW 011,12 111:131,2 211:246,3 311:348,4 411:422,5 511:523,6
    611:614,7 615:621,8 711:744,9 811:834,10 911:933,11
    999,13 Others,13

TALLY da06(ROW,COL)

IF P16A=1 OR P16A=2 OR (P16A=4 AND P16B=1) OR (P16A=6 AND P16B=1)
    TALLY da06(14,COL)
END-IF

IF (P16A=3 AND P16C=1) OR (P16A=4 AND P16B=2 AND P16C=1) OR
    (P16A=6 AND P16B=2 AND P16C=1)
    TALLY da06(15,COL)
END-IF

END-SUBR da06

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SUBROUTINE da07
UNIVERSE grp=1 and P03>=7 AND P03<>BLANK AND (p12a=1:8 or p12b=1:8)
RECODE P03 TO ROW 7:9,2 10:14,3 15:19,4 20:24,5 25:29,6 30:34,7 35:39,8
    40:44,9 45:49,10 50:54,11 55:59,12 60:64,13 65:69,14
    70:74,15 75:79,16 80:84,17 85:99,18 OTHER,1
LET ROW = ROW + (P02 * 18)

TALLY da07(ROW,1)

IF P16A=1 OR P16A=2 OR (P16A=3 AND P16C=1) OR (P16A=4 AND P16B=1) OR
    (P16A=4 AND P16B=2 AND P16C=1) OR (P16A=6 AND P16B=1) OR
    (P16A=6 AND P16B=2 AND P16C=1)

    TALLY da07(ROW,2)

    IF P16A=1 OR P16A=2 OR (P16A=4 AND P16B=1) OR (P16A=6 AND P16B=1)
        TALLY da07(ROW,3)
    END-IF

    IF (P16A=3 AND P16C=1) OR (P16A=4 AND P16B=2 AND P16C=1) OR
        (P16A=6 AND P16B=2 AND P16C=1)
        TALLY da07(ROW,4)
    END-IF
END-IF

IF (P16A=3 AND P16C=2) OR P16A=5 OR
    (P16A=4 AND P16B=2 AND P16C=2) OR (P16A=6 AND P16B=2 AND P16C=2)

    TALLY da07(ROW,5)
END-IF

END-SUBR da07

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SUBROUTINE da08
UNIVERSE GRP=1:2 AND P03=2:99 and (p12a=1:8 or p12b=1:8)
IF X09A=0
LET XX09A=DIS
ELSE

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LET XX09A=X09A
END-IF
RECODE XX09A TO COL 10:12,3 20,4 30:38,5 40:45,6 50:55,7 60:64,8 70:74,9
                        80:83,10 13:19,11 90:94,11 OTHERS,12

LET ROW=LGA+1
TALLY DA08 (ROW,COL)

END-SUBR DA08


SUBROUTINE DA09
UNIVERSE GRP=1 AND TYPE-COUNT(POP)>0 AND (P04(1)=1 OR P04(1)=2) AND P03=2:99
        .AND P02=2. AND (P12A=1:8 OR P12B=1:8)
RECODE H01A(1) TO ROW 1,2 2,3 3,4 OTHERS,5
LET COL=2
DO VARYING IND FROM 1 BY 1
UNTIL IND>TYPE-COUNT (POP)
IF P04(IND)>=5 AND P04(IND)<=16 AND COL<3
LET COL=3
END-IF
IF P04(IND)=17 OR P04 (IND)=BLANK
LET COL=4
END-IF
END-DO
TALLY DA09(ROW,COL)
END-SUBR DA09


SUBROUTINE DA10
UNIVERSE GRP=1 AND REC-NUMBER=1 AND P04(1)=1 OR P04(1)=2
        AND (P12A(1)=1:8 OR P12B(1)=1:8)

RECODE TYPE-COUNT (POP) TO COL 1,2 2,3 3,4 4,5 5,6 6,7 7,8 8,9 9,10 10:999,11
                        OTHERS,1

TALLY DA10(1,COL)
TALLY DA10(1,12)TYPE-COUNT(POP)

END-SUBR DA10


segment


SUBROUTINE DA11
UNIVERSE GRP=1:2 AND P03=7:99 AND (P12A=1:8 OR P12B=1:8)

RECODE P03 TO ROW 7:9,2 10:14,3 15:19,4 20:24,5 25:29,6 30:34,7 35:39,8
        40:44,9 45:49,10 50:54,11 55:59,12 60:64,13 65:69,14
        70:74,15 75:79,16 80:84,17 85:99,18 OTHER,1

LET ROW=ROW+(P02*18)

TALLY DA11 (ROW,1)
IF P15A=1
TALLY DA11(ROW,2)
END-IF
IF P15B=1
TALLY DA11(ROW,3)
END-IF
IF P15C=1
TALLY DA11(ROW,4)
END-IF

END-SUBR DA11

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SUBROUTINE DA12
UNIVERSE GRP=1 AND P03=2:99 AND (P12A(1)=1:8 OR P12B(1)=1:8)
      AND (P04(1)=1 OR P04(1)=2)

RECODE H06C(1) TO COL 1,2 2,3 3,4 4,5 5,6 6,7 7,8 OTHER,9
TALLY DA12(1,COL)

END-SUBR DA12

SUBROUTINE DA13
UNIVERSE GRP=1 AND P03=2:99 AND (P12A=1:8 OR P12B=1:8)
      AND (P04(1)=1 OR P04(1)=2)

RECODE H05(1) TO ROW 1,2 2,3 3,4 4,5 OTHER,6
RECODE H07(1) TO COL 1,2 2,3 3,4 4,5 5,6 6,7 7,8 OTHER,9
TALLY DA13(ROW,COL)

END-SUBR DA13

SUBROUTINE DA14
UNIVERSE GRP=1:2 AND TYPE-COUNT(POP)>0 AND P03=2:99 AND (P12A=1:8 OR P12B=1:8)
LET COL=2
DO VARYING IND FROM 1 BY 1
UNTIL IND>TYPE-COUNT(POP)
IF P04(IND)>=5 AND P04(IND)<=16 AND COL<3
LET COL=3
END-IF
IF P04(IND)=17 OR P04 (IND)=BLANK
LET COL=4
END-IF
END-DO
RECODE P03(1) TO ROW 0:14,2 15:24,3 25:34,4 35:44,5 45:54,6 55:98,7 99,8
      OTHER,8
LET ROW=ROW + (P02(1) * 8)
TALLY DA14 (ROW,COL)

END-SUBR DA14

SUBROUTINE DA15
UNIVERSE GRP=1:2 AND P03=3:17 AND P13A=2 AND (P12A=1:8 OR P12B=1:8)

IF P13A=1
LET ROW=2
ELSE

RECODE P13B TO ROW 0,3
      1:6,4 7:9,5 10:13,6 21:23,7 31:37,8 41:43,9 51:54,10
      61:64,11 70,12 80,13 81:86,14 OTHER,15

END-IF

LET ROW = ROW + (P02 * 15)

RECODE P03 TO COL 3,2 4,3 5,4 6,5 7,6 8,7 9,8 10,9 11,10 12,11 13,12 14,13
      15,14 16,15 17,16 OTHERS,1

TALLY DA15(ROW,COL)

END-SUBR DA15

SUBROUTINE DA16

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UNIVERSE GRP=1:2 AND P03=3:17 AND (P12A=1:8 OR P12B=1:8)

RECODE P03 TO COL 3,2 4,3 5,4 6,5 7,6 8,7 9,8 10,9 11,10 12,11 13,12 14,13  
15,14 16,15 17,16 OTHERS,1

IF P13A=1  
LET ROW=2  
ELSE  
RECODE P13B TO ROW 0,3 1:6,4 7:9,5 11:13,6 21:23,7 31:37,8  
41:43,9 51:54,10 61:64,11 70,12 80,13 81:86,14 others,15  
end-if

LET ROW = ROW + (P02 \* 15)  
TALLY DA16 (ROW,COL)  
END-SUBR DA16

segment

SUBROUTINE da17  
UNIVERSE GRP=1 AND P03=2:99

RECODE P03 to row 2:5,2 7:9,3 10:14,4 15:19,5 20:24,6 25:29,7 30:34,8  
34:39,9 40:44,10 45:49,11 50:54,12 55:59,13 60:64,14  
65:69,15 70:74,16 75:79,17 80:84,18 85:99,19 others,1

let row=row+(p02\*19)

tally da17(row,1)

IF P12A=1:8 or p12b=1:8  
TALLY da17(row,2)  
END-IF

IF P12A=1:8  
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2  
TALLY da17(row,COL)  
END-IF  
IF P12b=1:8  
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2  
TALLY da17(row,COL)  
END-IF

END-SUBR da17

segment

SUBROUTINE da19  
UNIVERSE GRP=1:2 AND P03=2:17 and (p12a=1:8 or p12b=1:8)  
IF X09A=0  
LET XX09A=DIS  
ELSE  
LET XX09A=X09A  
END-IF  
RECODE XX09A TO COL 10:12,3 20,4 30:38,5 40:45,6 50:55,7 60:64,8 70:74,9  
80:83,10 13:19,11 90:94,11 OTHERS,12  
LET ROW=LGA+1  
TALLY DA19 (ROW,COL)  
END-SUBR DA19

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SUBROUTINE da20
UNIVERSE GRP=1 AND P03=2:17

RECODE P03 to row 2:9,2 10:19,3 20:39,4 40:59,5 60:99,6 others,1
let row=row+(p02*6)

tally da20(row,1)

IF P12A=1:8 or p12b=1:8
TALLY da20(row,2)
END-IF

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IF P12A=1:8
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da20(row,COL)
END-IF
IF P12b=1:8
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da20(row,COL)
END-IF

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END-SUBR da20

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SUBROUTINE da21
UNIVERSE GRP=1 AND P03=2:17

recode p05 to row 0,2 10,3 11,4 12,5 13,6 14,7 15,8 16,9 17,10 18,11 19,12
                20,13 21,14 others,15

let row=row+(p02*15)

tally da21(row,1)

IF P12A=1:8 or p12b=1:8
TALLY da21(row,2)
END-IF

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IF P12A=1:8
recode p12a to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da21(row,COL)
END-IF
IF P12b=1:8
recode p12b to col 1,3 2,4 3,5 4,6 5,7 6,8 7,9 8,10 others,2
TALLY da21(row,COL)
END-IF

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END-SUBR da21

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