# Code of the article ‘The discriminative power of the ReproQ: a client experience questionnaire in maternity care’

## Multilevel analysis - performed in R

**Pregnancy** - without case mix correction

[1] " respect, tweede helft zwangerschap "

Linear mixed model fit by REML ['lmerMod']

Formula: RQ\_R\_Dom\_B ~ (1 | VSVnr)

Data: reproq

REML criterion at convergence: 1791.8

Scaled residuals:

Min 1Q Median 3Q Max

-9.7328 -0.1156 0.4380 0.4781 0.6037

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.0004017 0.02004

Residual 0.0771874 0.27783

Number of obs: 6371, groups: VSVnr, 42

Fixed effects:

Estimate Std. Error t value

(Intercept) 3.867812 0.004819 802.7

[1] 0.0004016787

[1] 0.07718744

Linear mixed model fit by REML ['lmerMod']

Formula: RQ\_R\_Dom\_B ~ (1 | VSVnr)

Data: reproq

REML criterion at convergence: 1791.8

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[1] 0.0004016787

[1] 0.07718744

[1] "\_\_\_\_"

**Pregnancy** - with case mix correction

[1] " respect, tweede helft zwangerschap "

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: RQ\_R\_Dom\_B ~ SD\_Lft\_M\_Cat4 + SD\_Opl\_M\_Cat3 + OV\_Gez\_M\_4 + (1 | VSVnr)

Data: reproq

REML criterion at convergence: 1465.6

Scaled residuals:

Min 1Q Median 3Q Max

-9.9523 -0.0674 0.3643 0.4852 1.1988

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.0002829 0.01682

Residual 0.0734406 0.27100

Number of obs: 6091, groups: VSVnr, 42

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 3.889e+00 7.776e-03 3.110e+02 500.135 < 2e-16 \*\*\*

SD\_Lft\_M\_Cat4 24 -4.955e-02 1.589e-02 6.075e+03 -3.119 0.00182 \*\*

SD\_Lft\_M\_Cat4 25-29 -1.012e-02 8.330e-03 6.074e+03 -1.215 0.22423

SD\_Lft\_M\_Cat4 35 6.582e-04 9.508e-03 6.079e+03 0.069 0.94481

SD\_Lft\_M\_Cat4 missing -4.956e-02 2.727e-02 6.073e+03 -1.818 0.06917 .

SD\_Opl\_M\_Cat3 laag 2.249e-02 1.511e-02 6.066e+03 1.489 0.13656

SD\_Opl\_M\_Cat3 middel 3.232e-02 8.004e-03 5.788e+03 4.038 5.45e-05 \*\*\*

SD\_Opl\_M\_Cat3 missing 1.729e-02 2.113e-02 6.075e+03 0.818 0.41327

OV\_Gez\_M\_4 uitstekend 1.984e-02 9.500e-03 6.078e+03 2.088 0.03681 \*

OV\_Gez\_M\_4 goed -5.607e-02 8.100e-03 6.080e+03 -6.922 4.91e-12 \*\*\*

OV\_Gez\_M\_4 matig -1.695e-01 1.674e-02 6.075e+03 -10.126 < 2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) SD\_L\_M\_C4 SD\_L\_M\_C42 SD\_L\_M\_C4 SD\_Lf\_M\_C4 SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3md

SD\_L\_M\_C42 -0.166

SD\_L\_M\_C425 -0.423 0.259

SD\_L\_M\_C43 -0.387 0.192 0.370

SD\_Lft\_M\_C4 -0.114 0.087 0.140 0.114

SD\_Opl\_M\_Ct3l -0.129 -0.169 -0.064 0.010 -0.051

SD\_Opl\_M\_Ct3md -0.260 -0.215 -0.130 0.007 -0.062 0.227

SD\_Opl\_M\_Ct3ms -0.109 -0.026 -0.022 0.002 -0.018 0.073 0.133

OV\_Gz\_M\_4ts -0.414 -0.002 -0.004 -0.014 -0.016 -0.005 0.015

OV\_Gz\_M\_4gd -0.456 0.002 0.013 -0.037 -0.006 -0.056 -0.079

OV\_Gz\_M\_4mt -0.213 -0.030 0.007 -0.008 -0.002 -0.065 -0.057

SD\_Opl\_M\_Ct3ms OV\_Gz\_M\_4t OV\_Gz\_M\_4g

SD\_L\_M\_C42

SD\_L\_M\_C425

SD\_L\_M\_C43

SD\_Lft\_M\_C4

SD\_Opl\_M\_Ct3l

SD\_Opl\_M\_Ct3md

SD\_Opl\_M\_Ct3ms

OV\_Gz\_M\_4ts -0.001

OV\_Gz\_M\_4gd -0.022 0.401

OV\_Gz\_M\_4mt -0.010 0.192 0.237

[1] 0.0002829407

[1] 0.07344057

[1] 0.003837862

[1] "\_\_\_\_"

**Birth and postnatal period – without case mix correction**

[1] " Dignity, birth "

Linear mixed model fit by REML ['lmerMod']

Formula: RQ\_R\_Dom\_A ~ (1 | VSVnr)

Data: reproq

REML criterion at convergence: 6701.8

Scaled residuals:

Min 1Q Median 3Q Max

-8.2131 0. 0.0028 0.4872 0.5235 0.5594

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.0002815 0.01678

Residual 0.1179841 0.34349

Number of obs: 9528, groups: VSVnr, 55

Fixed effects:

Estimate Std. Error t value

(Intercept) 3.823696 0.004417 865.7

[1] 0.0002814849

[1] 0.1179841

[1] 0.002380108

[1] "\_\_\_\_”

[1] " Dignity, Postnatal period "

Linear mixed model fit by REML ['lmerMod']

Formula: RQ\_R\_Dom\_B ~ (1 | VSVnr)

Data: reproq

REML criterion at convergence: 7337.4

Scaled residuals:

Min 1Q Median 3Q Max

-7.8143 -0.0287 0.4440 0.5538 0.6543

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.00106 0.03256

Residual 0.12617 0.35521

Number of obs: 9489, groups: VSVnr, 55

Fixed effects:

Estimate Std. Error t value

(Intercept) 3.808899 0.006061 628.4

[1] 0.001059885

[1] 0.1261739

[1] 0.008330219

[1] "\_\_\_\_"

**Birth and postnatal period – with case mix correction**

[1] "Casemix modellen - regel 1= variantie instellingen, regel 2= varientie residual, regel 3=ICC" [1] "\_\_\_\_"

[1] " Dignity, birth"

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: RQ\_R\_Dom\_A ~ SD\_Lft\_M\_Cat4 + SD\_Opl\_M\_Cat3 + OV\_Gez\_M\_4 + (1 | VSVnr)

Data: reproq

REML criterion at convergence: 6195.3

Scaled residuals:

Min 1Q Median 3Q Max

-8.6103 -0.1066 0.3458 0.5262 1.3253

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.0002468 0.01571

Residual 0.1146282 0.33857

Number of obs: 9112, groups: VSVnr, 55

Fixed effects:

Estimate Std. df t value Pr(>|t|)

(Intercept) 3.835e+00 7.791e-03 5.060e+02 492.170 < 2e-16 \*\*\*

SD\_Lft\_M\_Cat4 24 -7.697e-02 1.679e-9.090e+03 -4.585 4.60e-06 \*\*\*

SD\_Lft\_M\_Cat4 25-29 -1.286e-02 8.695e-03 9.076e+03 -1.479 0.139

SD\_Lft\_M\_Cat4 35 -3.124e-04 9.189e-03 9.082e+03 -0.034 0.973

SD\_Opl\_M\_Cat3laag -1.008e-02 1.381e-02 9.027e+03 -0.730 0.466

SD\_Opl\_M\_Cat3middel 3.623e-02 7.956e-03 8.531e+03 4.553 5.35e-06 \*\*\*

OV\_Gez\_M\_4uitstekend 5.639e-02 9.092e-03 9.103e+03 6.202 5.82e-10 \*\*\*

OV\_Gez\_M\_4goed -7.004e-02 8.490e-03 9.103e+03 -8.250 2.22e-16 \*\*\*

OV\_Gez\_M\_4matig -2.060e-01 2.004e-02 9.093e+03 -10.281 < 2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) SD\_L\_M\_C4¤ SD\_L\_M\_C4¤ SD\_L\_M\_C4¤ SD\_L\_M\_C42 SD\_L\_M\_C42 SD\_L\_M\_C42 SD\_L\_M\_C4¥ SD\_L\_M\_C4¥ SD\_L\_M\_C4¥ SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3m SD\_Opl\_M\_Ct3m SD\_Opl\_M\_Ct3m OV\_Gz\_M\_4t OV\_Gz\_M\_4t OV\_Gz\_M\_4t

SD\_L\_M\_C4 2 -0.148

SD\_L\_M\_C425 -0.380 0.239

SD\_L\_M\_C4 3 -0.406 0.187 0.363

SD\_Opl\_M\_Ct3l -0.144 -0.152 -0.105 -0.008

SD\_Opl\_M\_Ct3m -0.295 -0.194 -0.151 0.023 0.257

OV\_Gz\_M\_4ts -0.462 -0.007 -0.016 -0.002 0.009 0.018

OV\_Gz\_M\_4gd -0.460 -0.004 0.023 -0.029 -0.083 -0.075 0.423

OV\_Gz\_M\_4mt -0.178 0.001 -0.012 -0.024 -0.056 -0.047 0.179

OV\_Gz\_M\_4g SD\_L\_M\_C4¤2 SD\_L\_M\_C425 SD\_L\_M\_C4¥3

SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3m OV\_Gz\_M\_4ts OV\_Gz\_M\_4gd OV\_Gz\_M\_4mt 0.200

[1] 0.0002467927

[1] 0.1146282

[1] 0.002148359

[1] "\_\_\_\_"

[1] " Dignity, Postnatal period "

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: RQ\_R\_Dom\_B ~ SD\_Lft\_M\_Cat4 + SD\_Opl\_M\_Cat3 + OV\_Gez\_M\_4 + (1 VSVnr)

Data: reproq

REML criterion at convergence: 6765.3

Scaled residuals:

Min 1Q Median 3Q Max

-7.5025 -0.0911 0.3726 0.5500 1.1585

Random effects:

Groups Name Variance Std.Dev.

VSVnr (Intercept) 0.001142 0.03379

Residual 0.121998 0.34928

Number of obs: 9075, groups: VSVnr, 55

Fixed effects: Estimate Std. Error df t value Pr(>|t|)

(Intercept) 3.817e+00 9.120e-03 2.200e+02 418.517 < 2e-16 \*\*\*

SD\_Lft\_M\_Cat4â‰¤24 -3.920e-02 1.742e-02 9.066e+03 -2.250 0.0245 \*

SD\_Lft\_M\_Cat425-29 -6.968e-03 9.010e-03 9.066e+03 -0.773 0.4393

SD\_Lft\_M\_Cat4â‰¥35 -2.269e-03 9.520e-03 9.066e+03 -0.238 0.8116

SD\_Opl\_M\_Cat3laag 1.894e-02 1.440e-02 9.054e+03 1.315 0.1884

SD\_Opl\_M\_Cat3middel 3.238e-02 8.277e-03 8.905e+03 3.912 9.21e-05 \*\*\*

OV\_Gez\_M\_4uitstekend 5.071e-02 9.402e-03 9.055e+03 5.394 7.07e-08 \*\*\*

OV\_Gez\_M\_4goed -6.806e-02 8.792e-03 9.056e+03 -7.741 1.11e-14 \*\*\*

OV\_Gez\_M\_4matig -1.781e-01 2.069e-02 9.041e+03 -8.608 < 2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) SD\_L\_M\_C4¤ SD\_L\_M\_C42 SD\_L\_M\_C4¥ SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3m OV\_Gz\_M\_4t

SD\_L\_M\_C4¤2 -0.134

SD\_L\_M\_C425 -0.337 0.239

SD\_L\_M\_C4¥3 -0.360 0.186 0.361

SD\_Opl\_M\_Ct3l -0.127 -0.151 -0.102 -0.011

SD\_Opl\_M\_Ct3m -0.259 -0.192 -0.148 0.019 0.260

OV\_Gz\_M\_4ts -0.407 -0.006 -0.015 0.000 0.008 0.017

OV\_Gz\_M\_4gd -0.406 -0.005 0.024 -0.028 -0.081 -0.073 0.422

OV\_Gz\_M\_4mt -0.157 0.000 -0.014 -0.025 -0.055 -0.046 0.180

OV\_Gz\_M\_4g SD\_L\_M\_C4¤2 SD\_L\_M\_C425 SD\_L\_M\_C4¥3 SD\_Opl\_M\_Ct3l SD\_Opl\_M\_Ct3m OV\_Gz\_M\_4ts OV\_Gz\_M\_4gd OV\_Gz\_M\_4mt 0.200

[1] 0.001141764

[1] 0.1219984

[1] 0.009272069

[1] "\_\_\_\_"

## Discriminative power - performed in SPSS

**Discriminative power based on statistics**

These results are based on the caterpillar plots made in R.

**Discriminative power based on relevance**

*Calculating the MID*

NUMERIC OV\_All\_M\_Cat5 (F2.0).

COMPUTE OV\_All\_M\_Cat5 =-999.

IF (OV\_All\_S=1 OR OV\_All\_S=2 OR OV\_All\_S=3 OR OV\_All\_S=4 OR OV\_All\_S=5 OR OV\_All\_S=6) OV\_All\_M\_Cat5 =1.

IF (OV\_All\_S=7) OV\_All\_M\_Cat5 =2.

IF (OV\_All\_S=8) OV\_All\_M\_Cat5 =3.

IF (OV\_All\_S=9) OV\_All\_M\_Cat5 =4.

IF (OV\_All\_S=10) OV\_All\_M\_Cat5 =5.

IF (OV\_All\_S=999) OV\_All\_M\_Cat5 =999.

VARIABLE LABELS OV\_All\_M\_Cat5 'overall cijfer - Missing'.

VALUE LABELS OV\_All\_M\_Cat5

1 '≤6'

2 '7'

3 '8'

4 '9'

5 '10'

999 'missing'.

MISSING VALUES OV\_All\_M\_Cat5 (999).

FREQUENCIES OV\_All\_M\_Cat5.

\* STAP 1: Spliting the mean domain and summary scores for the 5 subgroups of the overall rating.

FREQUENCIES OV\_All\_M\_Cat5.

SORT CASES OV\_All\_M\_Cat5 (A).

SPLIT FILE BY OV\_All\_M\_Cat5.

FREQUENCIES VARIABLES= RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A RQ\_PS\_Dom\_A RQ\_ST\_Dom\_A RQ\_EvT\_A

/STATISTICS=MEAN STDDEV MEDIAN

/NTILES 4

/ORDER=ANALYSIS.

FREQUENCIES VARIABLES= RQ\_R\_Dom\_B RQ\_A\_Dom\_B RQ\_P\_Dom\_B RQ\_C\_Dom\_B RQ\_T\_Dom\_B RQ\_S\_Dom\_B RQ\_F\_Dom\_B RQ\_K\_Dom\_B RQ\_PS\_Dom\_B RQ\_ST\_Dom\_B RQ\_EvT\_B

/STATISTICS=MEAN STDDEV MEDIAN

/NTILES 4

/ORDER=ANALYSIS.

SPLIT FILE OFF.

\* STAP 2: Calculating standard error of the mean.

DESCRIPTIVES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A

RQ\_K\_Dom\_A RQ\_PS\_Dom\_A RQ\_ST\_Dom\_A RQ\_EvT\_A

/STATISTICS=MEAN STDDEV MIN MAX SEMEAN.

*Determining the ReproQ’s discriminative power*

\* STAP 1: maximum score of the perinatal units

FREQUENCIES

RQ\_EvT\_B

RQ\_PS\_Dom\_B RQ\_ST\_Dom\_B

RQ\_R\_Dom\_B RQ\_A\_Dom\_B RQ\_P\_Dom\_B RQ\_C\_Dom\_B RQ\_T\_Dom\_B RQ\_S\_Dom\_B RQ\_F\_Dom\_B RQ\_K\_Dom\_B

/STATISTICS MEAN MEDIAN MINIMUM MAXIMUM.

SORT CASES BY VSVnr (A).

SPLIT FILE BY VSVnr.

FREQUENCIES

RQ\_EvT\_B

RQ\_PS\_Dom\_B RQ\_ST\_Dom\_B

RQ\_R\_Dom\_B RQ\_A\_Dom\_B RQ\_P\_Dom\_B RQ\_C\_Dom\_B RQ\_T\_Dom\_B RQ\_S\_Dom\_B RQ\_F\_Dom\_B RQ\_K\_Dom\_B

/STATISTICS MEAN .

SPLIT FILE OFF.

\* STAP 2: Admiting the MID as variable.

COMPUTE RQ\_TOT\_MID\_ZS = 0.11 .

COMPUTE RQ\_PS\_MID\_ZS = 0.09 .

COMPUTE RQ\_ST\_MID\_ZS = 0.12 .

COMPUTE RQ\_Res\_MID\_ZS = 0.07 .

COMPUTE RQ\_Aut\_MID\_ZS = 0.11 .

COMPUTE RQ\_Pri\_MID\_ZS = 0.09 .

COMPUTE RQ\_Com\_MID\_ZS = 0.11 .

COMPUTE RQ\_Tyd\_MID\_ZS = 0.11 .

COMPUTE RQ\_Soc\_MID\_ZS = 0.09 .

COMPUTE RQ\_Fac\_MID\_ZS = 0.08 .

COMPUTE RQ\_Keu\_MID\_ZS = 0.19 .

\* STAP 3C: Admitting the mean score of the P90 - P100 as variable.

COMPUTE RQ\_TOT\_ZS\_D90 = 3.796175.

COMPUTE RQ\_PS\_ZS\_D90 = 3.806275 .

COMPUTE RQ\_ST\_ZS\_D90 = 3.7922 .

COMPUTE RQ\_Res\_ZS\_D90 = 3.91195 .

COMPUTE RQ\_Aut\_ZS\_D90 = 3.750975 .

COMPUTE RQ\_Pri\_ZS\_D90 = 3.813694125 .

COMPUTE RQ\_Com\_ZS\_D90 = 3.802525 .

COMPUTE RQ\_Tyd\_ZS\_D90 = 3.7661 .

COMPUTE RQ\_Soc\_ZS\_D90 = 3.837875 .

COMPUTE RQ\_Fac\_ZS\_D90 = 3.88975 .

COMPUTE RQ\_Keu\_ZS\_D90 = 3.74155 .

EXECUTE.

\* STAP 4C:Determining of the difference in the score of the perinatal units and the Delta 90-score is equal or larger than the MID.

NUMERIC RQ\_TOT\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_TOT\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_TOT\_ZS\_D90-RQ\_Tot\_ZS\_B) >=RQ\_TOT\_MID\_ZS) RQ\_TOT\_VSV\_ZS\_D90 =2.

IF ((RQ\_TOT\_ZS\_D90-RQ\_Tot\_ZS\_B) <RQ\_TOT\_MID\_ZS) RQ\_TOT\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_TOT\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- totaal score'.

VALUE LABELS RQ\_TOT\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_TOT\_VSV\_ZS\_D90.

NUMERIC RQ\_PERS\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_PERS\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_PS\_ZS\_D90-RQ\_PERS\_ZS\_B) >=RQ\_PS\_MID\_ZS) RQ\_PERS\_VSV\_ZS\_D90 =2.

IF ((RQ\_PS\_ZS\_D90-RQ\_PERS\_ZS\_B) <RQ\_PS\_MID\_ZS) RQ\_PERS\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_PERS\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- pers score'.

VALUE LABELS RQ\_PERS\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_PERS\_VSV\_ZS\_D90.

NUMERIC RQ\_SETT\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_SETT\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_ST\_ZS\_D90-RQ\_SETT\_ZS\_B) >=RQ\_ST\_MID\_ZS) RQ\_SETT\_VSV\_ZS\_D90 =2.

IF ((RQ\_ST\_ZS\_D90-RQ\_SETT\_ZS\_B) <RQ\_ST\_MID\_ZS) RQ\_SETT\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_SETT\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- sett score'.

VALUE LABELS RQ\_SETT\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_SETT\_VSV\_ZS\_D90.

NUMERIC RQ\_RES\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_RES\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_RES\_ZS\_D90-RQ\_RES\_ZS\_B) >=RQ\_RES\_MID\_ZS) RQ\_RES\_VSV\_ZS\_D90 =2.

IF ((RQ\_RES\_ZS\_D90-RQ\_RES\_ZS\_B) <RQ\_RES\_MID\_ZS) RQ\_RES\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_RES\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- res score'.

VALUE LABELS RQ\_RES\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_RES\_VSV\_ZS\_D90.

NUMERIC RQ\_Aut\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Aut\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Aut\_ZS\_D90-RQ\_Aut\_ZS\_B) >=RQ\_Aut\_MID\_ZS) RQ\_Aut\_VSV\_ZS\_D90 =2.

IF ((RQ\_Aut\_ZS\_D90-RQ\_Aut\_ZS\_B) <RQ\_Aut\_MID\_ZS) RQ\_Aut\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Aut\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- aut score'.

VALUE LABELS RQ\_Aut\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Aut\_VSV\_ZS\_D90.

NUMERIC RQ\_Pri\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Pri\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Pri\_ZS\_D90-RQ\_Pri\_ZS\_B) >=RQ\_Pri\_MID\_ZS) RQ\_Pri\_VSV\_ZS\_D90 =2.

IF ((RQ\_Pri\_ZS\_D90-RQ\_Pri\_ZS\_B) <RQ\_Pri\_MID\_ZS) RQ\_Pri\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Pri\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- pri score'.

VALUE LABELS RQ\_Pri\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Pri\_VSV\_ZS\_D90.

NUMERIC RQ\_Com\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Com\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Com\_ZS\_D90-RQ\_Com\_ZS\_B) >=RQ\_Com\_MID\_ZS) RQ\_Com\_VSV\_ZS\_D90 =2.

IF ((RQ\_Com\_ZS\_D90-RQ\_Com\_ZS\_B) <RQ\_Com\_MID\_ZS) RQ\_Com\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Com\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- com score'.

VALUE LABELS RQ\_Com\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Com\_VSV\_ZS\_D90.

NUMERIC RQ\_Tyd\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Tyd\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Tyd\_ZS\_D90-RQ\_Tyd\_ZS\_B) >=RQ\_Tyd\_MID\_ZS) RQ\_Tyd\_VSV\_ZS\_D90 =2.

IF ((RQ\_Tyd\_ZS\_D90-RQ\_Tyd\_ZS\_B) <RQ\_Tyd\_MID\_ZS) RQ\_Tyd\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Tyd\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- tijd score'.

VALUE LABELS RQ\_Tyd\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Tyd\_VSV\_ZS\_D90.

NUMERIC RQ\_Soc\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Soc\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Soc\_ZS\_D90-RQ\_Soc\_ZS\_B) >=RQ\_Soc\_MID\_ZS) RQ\_Soc\_VSV\_ZS\_D90 =2.

IF ((RQ\_Soc\_ZS\_D90-RQ\_Soc\_ZS\_B) <RQ\_Soc\_MID\_ZS) RQ\_Soc\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Soc\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- soc score'.

VALUE LABELS RQ\_Soc\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Soc\_VSV\_ZS\_D90.

NUMERIC RQ\_Fac\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Fac\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Fac\_ZS\_D90-RQ\_Fac\_ZS\_B) >=RQ\_Fac\_MID\_ZS) RQ\_Fac\_VSV\_ZS\_D90 =2.

IF ((RQ\_Fac\_ZS\_D90-RQ\_Fac\_ZS\_B) <RQ\_Fac\_MID\_ZS) RQ\_Fac\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Fac\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- fac score'.

VALUE LABELS RQ\_Fac\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Fac\_VSV\_ZS\_D90.

NUMERIC RQ\_Keu\_VSV\_ZS\_D90 (F2.0).

COMPUTE RQ\_Keu\_VSV\_ZS\_D90 =$SYSMIS.

IF ((RQ\_Keu\_ZS\_D90-RQ\_Keu\_ZS\_B) >=RQ\_Keu\_MID\_ZS) RQ\_Keu\_VSV\_ZS\_D90 =2.

IF ((RQ\_Keu\_ZS\_D90-RQ\_Keu\_ZS\_B) <RQ\_Keu\_MID\_ZS) RQ\_Keu\_VSV\_ZS\_D90 =1.

VARIABLE LABELS RQ\_Keu\_VSV\_ZS\_D90 'Relevant verschil tussen vsvs D90- keu score'.

VALUE LABELS RQ\_Keu\_VSV\_ZS\_D90

1 'no relevant difference'

2 'relevant difference'.

FREQUENCIES RQ\_Keu\_VSV\_ZS\_D90.

## Profiling units performed in SPSS

NUMERIC F\_VSV\_19 (F2.0).

COMPUTE F\_VSV\_19 = $SYSMIS.

IF (vsv=19) F\_VSV\_19 =1.

VARIABLE LABELS F\_VSV\_19 'Filter best performing unit'.

FREQUENCIES F\_VSV\_19.

NUMERIC F\_VSV\_2 (F2.0).

COMPUTE F\_VSV\_2 = $SYSMIS.

IF (vsv=2) F\_VSV\_2 =1.

VARIABLE LABELS F\_VSV\_2 'Filter worst performing unit (2)'.

FREQUENCIES F\_VSV\_2.

NUMERIC F\_VSV\_34 (F2.0).

COMPUTE F\_VSV\_34 = $SYSMIS.

IF (vsv=34) F\_VSV\_34 =1.

VARIABLE LABELS F\_VSV\_34 'Filter worst performing unit (34)'.

FREQUENCIES F\_VSV\_34.

NUMERIC F\_VSV\_63 (F2.0).

COMPUTE F\_VSV\_63 = $SYSMIS.

IF (vsv=63) F\_VSV\_63 =1.

VARIABLE LABELS F\_VSV\_63 'Filter worst performing unit (63)'.

FREQUENCIES F\_VSV\_63.

NUMERIC F\_VSV\_72 (F2.0).

COMPUTE F\_VSV\_72 = $SYSMIS.

IF (vsv=72) F\_VSV\_72 =1.

VARIABLE LABELS F\_VSV\_72 'Filter worst performing unit (72)'.

FREQUENCIES F\_VSV\_72.

SORT CASES BY F\_VSV\_19.

FILTER BY F\_VSV\_19.

FREQUENCIES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A

/STATISTICS=MEAN MEDIAN

/ORDER=ANALYSIS.

FREQUENCIES RQ\_C\_Ant\_A\_M RQ\_C\_Adv\_A\_M RQ\_C\_Uit\_A\_M RQ\_C\_Inf\_A\_M.

FILTER OFF.

SORT CASES BY F\_VSV\_2.

FILTER BY F\_VSV\_2.

FREQUENCIES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A

/STATISTICS=MEAN MEDIAN

/ORDER=ANALYSIS.

FREQUENCIES RQ\_C\_Ant\_A\_M RQ\_C\_Adv\_A\_M RQ\_C\_Uit\_A\_M RQ\_C\_Inf\_A\_M.

FILTER OFF.

SORT CASES BY F\_VSV\_72.

FILTER BY F\_VSV\_72.

FREQUENCIES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A

/STATISTICS=MEAN MEDIAN

/ORDER=ANALYSIS.

FREQUENCIES RQ\_C\_Ant\_A\_M RQ\_C\_Adv\_A\_M RQ\_C\_Uit\_A\_M RQ\_C\_Inf\_A\_M.

FILTER OFF.

SORT CASES BY F\_VSV\_34.

FILTER BY F\_VSV\_34.

FREQUENCIES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A

/STATISTICS=MEAN MEDIAN

/ORDER=ANALYSIS.

FREQUENCIES RQ\_C\_Ant\_A\_M RQ\_C\_Adv\_A\_M RQ\_C\_Uit\_A\_M RQ\_C\_Inf\_A\_M.

FILTER OFF.

SORT CASES BY F\_VSV\_63.

FILTER BY F\_VSV\_63.

FREQUENCIES VARIABLES=RQ\_R\_Dom\_A RQ\_A\_Dom\_A RQ\_P\_Dom\_A RQ\_C\_Dom\_A RQ\_T\_Dom\_A RQ\_S\_Dom\_A RQ\_F\_Dom\_A RQ\_K\_Dom\_A

/STATISTICS=MEAN MEDIAN

/ORDER=ANALYSIS.

FREQUENCIES RQ\_C\_Ant\_A\_M RQ\_C\_Adv\_A\_M RQ\_C\_Uit\_A\_M RQ\_C\_Inf\_A\_M.

FILTER OFF.