## S6: Statistics for the multiple regression analysis

Analysis of variance

**ANOVA[b]**

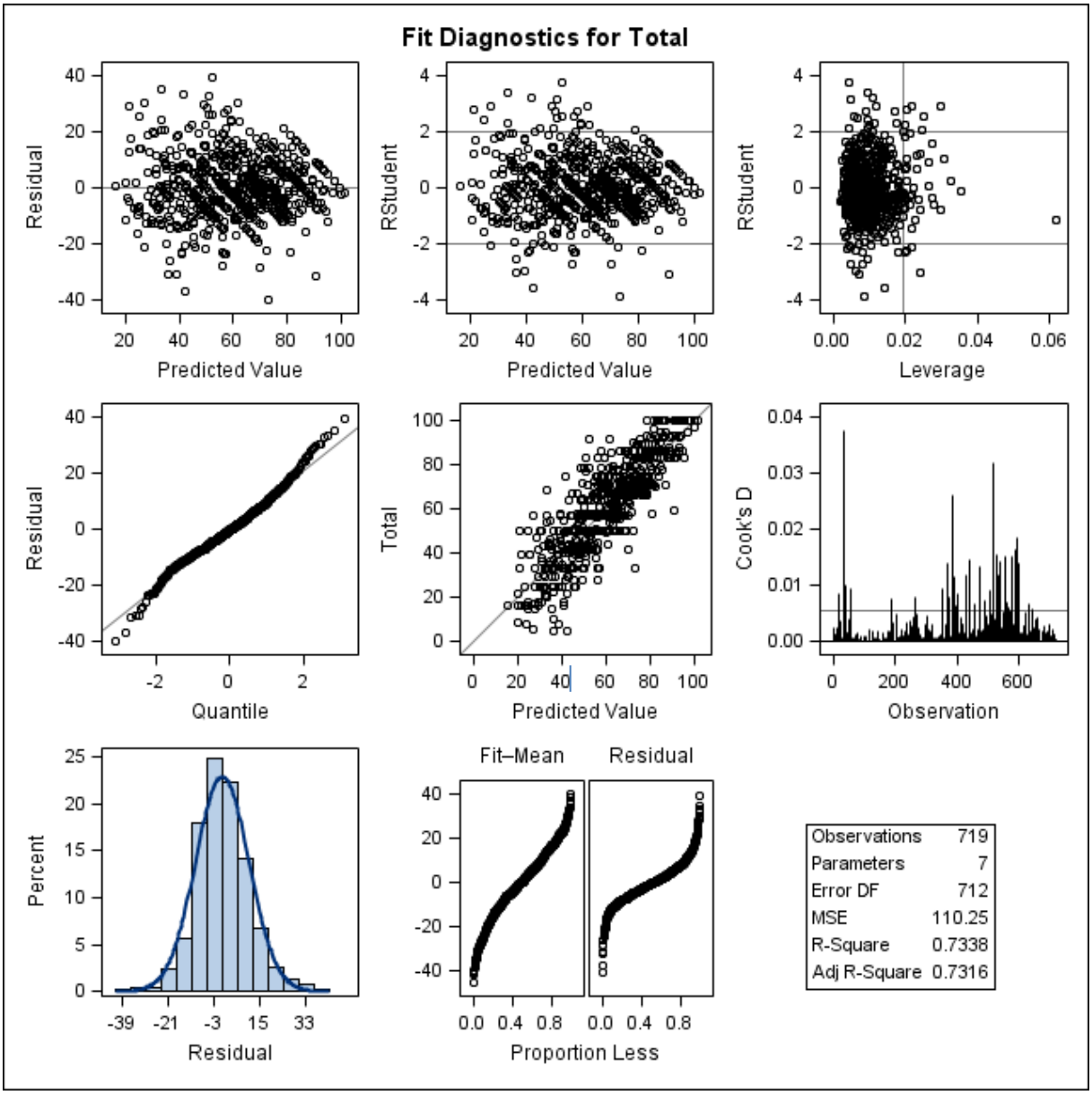
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | 216426.103 | 6 | 36071.017 | 327.181 | .000[a] |
| | Residual | 78496.575 | 712 | 110.248 | | |
| | Total | 294922.678 | 718 | | | |

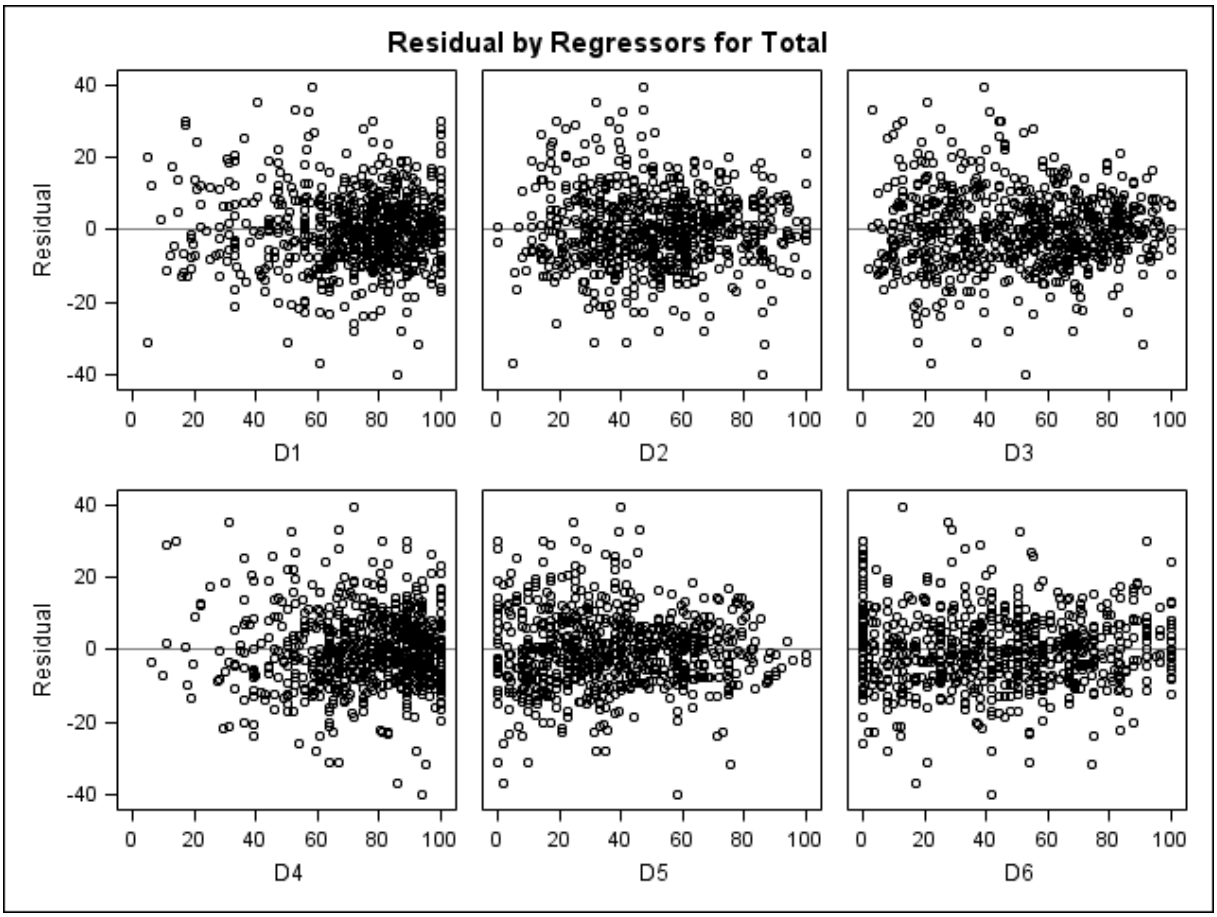
a. Predictors: (constant), Domain 6, Domain 4, Domain 5, Domain 2, Domain 1, Domain 3

b. Dependent variable: overall guideline quality

Collinearity statistics

| Model | | Tolerance | VIF |
|---|---|---|---|
| 1 | (Constant) | | |
| | Domain 1 | .516 | 1.937 |
| | Domain 2 | .494 | 2.023 |
| | Domain 3 | .378 | 2.647 |
| | Domain 4 | .570 | 1.756 |
| | Domain 5 | .670 | 1.492 |
| | Domain 6 | .644 | 1.552 |


Fit Diagnostics for Total
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
Total
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 719
Parameters 7
Error DF 712
MSE 110.25
R-Square 0.7338
Adj R-Square 0.7316


Residual by Regressors for Total
Residual
40
20
0
-20
-40
0
20
40
60
80
100
D1
D2
D3
D4
D5
D6

## Correlations of independent variables

| | | Domain1 | Domain 2 | Domain 3 | Domain 4 | Domain 5 | Domain 6 |
|---|---|---|---|---|---|---|---|
| Pearson correlation | Domain 1 | 1.000 | .555 | .616 | .573 | .416 | .342 |
| | Domain 2 | .555 | 1.000 | .659 | .467 | .484 | .446 |
| | Domain 3 | .616 | .659 | 1.000 | .561 | .440 | .571 |
| | Domain 4 | .573 | .467 | .561 | 1.000 | .455 | .315 |
| | Domain 5 | .416 | .484 | .440 | .455 | 1.000 | .385 |
| | Domain 6 | .342 | .446 | .571 | .315 | .385 | 1.000 |

## Descriptive statistics

| | Mean | Std. Deviation | N |
|---|---|---|---|
| Assessment of guideline quality | 61.1585 | 20.26711 | 719 |
| Domain 1 | 72.3956 | 21.10985 | 719 |
| Domain 2 | 51.2753 | 21.24538 | 719 |
| Domain 3 | 51.0951 | 25.04452 | 719 |
| Domain 4 | 75.7952 | 19.42430 | 719 |
| Domain 5 | 37.2841 | 23.19451 | 719 |
| Domain 6 | 44.1308 | 28.72576 | 719 |

**Model summary[b]**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .857[a] | .734 | .732 | 10.49990 |

a. Predictors: (constant), Domain 6, Domain 4, Domain 5, Domain 2, Domain 1, Domain 3

b. Dependent variable: Overall assessment 1

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Correlations | | |
|---|---|---|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | | | Zero-order | Partial | Part |
| 1 | (Constant) | 5.591 | 1.753 | | 3.190 | .001 | | | |
| | Domain 1 | .175 | .026 | .183 | 6.784 | .000 | .668 | .246 | .131 |
| | Domain 2 | .062 | .026 | .065 | 2.381 | .018 | .634 | .089 | .046 |
| | Domain 3 | .300 | .025 | .371 | 11.796 | .000 | .771 | .404 | .228 |
| | Domain 4 | .203 | .027 | .194 | 7.583 | .000 | .652 | .273 | .147 |
| | Domain 5 | .163 | ,021 | .187 | 7.913 | .000 | .582 | .284 | .153 |
| | Domain 6 | .065 | .017 | .093 | 3.841 | .000 | .529 | .142 | .074 |

**Residuals statistics**[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted value | 15,9166 | 101,5885 | 61,1585 | 17,36171 | 719 |
| Residual | -40,21762 | 39,29159 | ,00000 | 10,45594 | 719 |
| Std. predicted value | -2,606 | 2,329 | ,000 | 1,000 | 719 |
| Std. residual | -3,830 | 3,742 | ,000 | ,996 | 719 |

a. Dependent variable: overall guideline quality