

```

REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA COLLIN TOL
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT TOT_SAT
  /METHOD=ENTER Place Staff Service Tools
  /RESIDUALS DURBIN
  /SAVE RESID.

```

Regression

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|---|-------------------|--------|
| 1 | Tools, Service, Staff, Place ^b | . | Enter |

a. Dependent Variable: TOT_SAT

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
|-------|-------------------|----------|-------------------|----------------------------|---------------|
| 1 | .843 ^a | .711 | .708 | .36247 | 2.257 |

a. Predictors: (Constant), Tools, Service, Staff, Place

b. Dependent Variable: TOT_SAT

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|---------|-------------------|
| 1 | Regression | 127.601 | 4 | 31.900 | 242.799 | .000 ^b |
| | Residual | 51.897 | 395 | .131 | | |
| | Total | 179.498 | 399 | | | |

a. Dependent Variable: TOT_SAT

b. Predictors: (Constant), Tools, Service, Staff, Place

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Collinearity Statistics | |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|-------------------------|-------|
| | | B | Std. Error | Beta | | | Tolerance | VIF |
| 1 | (Constant) | .225 | .127 | | 1.777 | .076 | | |
| | Place | .248 | .060 | .237 | 4.112 | .000 | .220 | 4.543 |
| | Staff | .131 | .051 | .130 | 2.588 | .010 | .288 | 3.471 |
| | Service | .563 | .049 | .530 | 11.435 | .000 | .341 | 2.929 |
| | Tools | .006 | .042 | .006 | .141 | .888 | .385 | 2.598 |

a. Dependent Variable: TOT_SAT

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | | | | |
|-------|-----------|------------|-----------------|----------------------|-------|-------|---------|-------|
| | | | | (Constant) | Place | Staff | Service | Tools |
| 1 | 1 | 4.962 | 1.000 | .00 | .00 | .00 | .00 | .00 |
| | 2 | .019 | 16.285 | .77 | .01 | .01 | .00 | .18 |
| | 3 | .009 | 23.309 | .20 | .06 | .16 | .06 | .80 |
| | 4 | .007 | 27.081 | .03 | .00 | .38 | .74 | .01 |
| | 5 | .004 | 36.236 | .00 | .93 | .45 | .20 | .01 |

a. Dependent Variable: TOT_SAT

Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|----------------------|---------|---------|--------|----------------|-----|
| Predicted Value | 2.2409 | 4.9659 | 4.1075 | .56551 | 400 |
| Residual | -.84088 | .66101 | .00000 | .36065 | 400 |
| Std. Predicted Value | -3.301 | 1.518 | .000 | 1.000 | 400 |
| Std. Residual | -2.320 | 1.824 | .000 | .995 | 400 |

a. Dependent Variable: TOT_SAT

```

COMPUTE SQERR=RES_1 ** 2.
EXECUTE.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT SQERR
  /METHOD=ENTER Place Staff Service Tools.

```

Regression

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|---|-------------------|--------|
| 1 | Tools, Service, Staff, Place ^b | . | Enter |

a. Dependent Variable: SQERR

b. All requested variables entered.

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .040 ^a | .012 | .008 | .11080 |

a. Predictors: (Constant), Tools, Service, Staff, Place

```
EXAMINE VARIABLES=RES_1
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
```

Explore

Case Processing Summary

| | Cases | | | | | |
|-------------------------|-------|---------|---------|---------|-------|---------|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Unstandardized Residual | 400 | 100.0% | 0 | 0.0% | 400 | 100.0% |

Descriptives

| | | Statistic | Std. Error | |
|-------------------------|----------------------------------|-------------|------------|--|
| Unstandardized Residual | Mean | .0000000 | .01803244 | |
| | 95% Confidence Interval for Mean | Lower Bound | -.0354505 | |
| | | Upper Bound | .0354505 | |
| | 5% Trimmed Mean | .0054641 | | |
| | Median | .0081527 | | |
| | Variance | .130 | | |
| | Std. Deviation | .36064886 | | |
| | Minimum | -.84088 | | |
| | Maximum | .66101 | | |
| | Range | 1.50189 | | |
| | Interquartile Range | .43211 | | |
| | Skewness | -.208 | .122 | |
| | Kurtosis | -.353 | .243 | |

Tests of Normality

| | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|-------------------------|---------------------------------|-----|------|--------------|-----|------|
| | Statistic | df | Sig. | Statistic | df | Sig. |
| Unstandardized Residual | .880 | 400 | .200 | .971 | 400 | .220 |

a. Lilliefors Significance Correction

Unstandardized Residual