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Correlation Heatmap

Correlation Heatmap
Import data

Correlation Heatmap - Descriptive Statistics

Correlation Heatmap - Descriptive Statistics
 Numeric variables included in the heatmap workflow

Descriptives

[CorrelationHeatmapData] D:\DATA ANALYSIS\G Correlation Tests\Correlation Heatmap\SPSS_Output\sav\Correlation-Heatmap-data.sav

Descriptive Statistics

| | N | Minimum | Maximum | Mean | Std. Deviation |
|-------------------------------|-----|---------|---------|-------|----------------|
| Student age | 649 | 15 | 22 | 16.74 | 1.218 |
| Mother education | 649 | 0 | 4 | 2.51 | 1.135 |
| Father education | 649 | 0 | 4 | 2.31 | 1.100 |
| Home to school travel time | 649 | 1 | 4 | 1.57 | .749 |
| Weekly study time | 649 | 1 | 4 | 1.93 | .830 |
| Number of past class failures | 649 | 0 | 3 | .22 | .593 |
| Family relationship quality | 649 | 1 | 5 | 3.93 | .956 |
| Free time after school | 649 | 1 | 5 | 3.18 | 1.051 |
| Going out with friends | 649 | 1 | 5 | 3.18 | 1.176 |
| Workday alcohol consumption | 649 | 1 | 5 | 1.50 | .925 |
| Weekend alcohol consumption | 649 | 1 | 5 | 2.28 | 1.284 |
| Current health status | 649 | 1 | 5 | 3.54 | 1.446 |
| Number of school absences | 649 | 0 | 32 | 3.66 | 4.641 |
| First period grade | 649 | 0 | 19 | 11.40 | 2.745 |
| Second period grade | 649 | 0 | 19 | 11.57 | 2.914 |
| Final grade | 649 | 0 | 19 | 11.91 | 3.231 |
| Valid N (listwise) | 649 | | | | |

Correlation Heatmap - Pearson Correlation Matrix

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>Warning # 2004. Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length. The first 60 characters  
>will be used.
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Correlation Heatmap - Pearson Correlation Matrix
Pearson r values, significance tests, and pairwise valid sam

Correlations

Warnings

There is an invalid keyword on the PRINT subcommand. Text
found: FULL

Execution of this command stops.

Correlation Heatmap - Spearman Rank Correlation Matrix

```
>Warning # 2004.  Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length.  The first 60 characters  
>will be used.
```

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Nonparametric Correlations

Correlations

| | | | Student age | Mother education |
|----------------|-------------------------------|-------------------------|-------------|------------------|
| Spearman's rho | Student age | Correlation Coefficient | 1.000 | -.102** |
| | | Sig. (2-tailed) | . | .009 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | -.102** | 1.000 |
| | | Sig. (2-tailed) | .009 | . |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | -.110** | .647** |
| | | Sig. (2-tailed) | .005 | .000 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | .067 | -.263** |
| | | Sig. (2-tailed) | .088 | .000 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | .017 | .098* |
| | | Sig. (2-tailed) | .666 | .012 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | .291** | -.208** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | -.019 | .025 |
| | | Sig. (2-tailed) | .622 | .524 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | -.010 | -.028 |
| | | Sig. (2-tailed) | .802 | .478 |
| | | N | 649 | 649 |
| | Going out with friends | Correlation Coefficient | .131** | .010 |
| | | Sig. (2-tailed) | .001 | .795 |
| | | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Father education | Home to school travel time |
|----------------|-------------------------------|-------------------------|------------------|----------------------------|
| Spearman's rho | Student age | Correlation Coefficient | -.110** | .067 |
| | | Sig. (2-tailed) | .005 | .088 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | .647** | -.263** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | 1.000 | -.222** |
| | | Sig. (2-tailed) | . | .000 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | -.222** | 1.000 |
| | | Sig. (2-tailed) | .000 | . |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | .069 | -.089* |
| | | Sig. (2-tailed) | .079 | .023 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | -.161** | .124** |
| | | Sig. (2-tailed) | .000 | .002 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | .021 | -.026 |
| | | Sig. (2-tailed) | .588 | .514 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | .000 | -.001 |
| | | Sig. (2-tailed) | .997 | .979 |
| | | N | 649 | 649 |
| | Going out with friends | Correlation Coefficient | .029 | .041 |
| | | Sig. (2-tailed) | .464 | .300 |
| | | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Weekly study time | Number of past class failures |
|------------------------|-------------------------------|-------------------------|-------------------|-------------------------------|
| Spearman's rho | Student age | Correlation Coefficient | .017 | .291** |
| | | Sig. (2-tailed) | .666 | .000 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | .098* | -.208** |
| | | Sig. (2-tailed) | .012 | .000 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .069 | -.161** |
| | | Sig. (2-tailed) | .079 | .000 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | -.089* | .124** |
| | | Sig. (2-tailed) | .023 | .002 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | 1.000 | -.160** |
| | | Sig. (2-tailed) | . | .000 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | -.160** | 1.000 |
| | | Sig. (2-tailed) | .000 | . |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | .019 | -.059 |
| | | Sig. (2-tailed) | .622 | .135 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | -.076 | .100* |
| | | Sig. (2-tailed) | .051 | .010 |
| | | N | 649 | 649 |
| Going out with friends | Correlation Coefficient | -.082* | .042 | |
| | Sig. (2-tailed) | .036 | .289 | |
| | N | 649 | 649 | |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Family relationship quality | Free time after school |
|------------------------|-------------------------------|-------------------------|-----------------------------|------------------------|
| Spearman's rho | Student age | Correlation Coefficient | -.019 | -.010 |
| | | Sig. (2-tailed) | .622 | .802 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | .025 | -.028 |
| | | Sig. (2-tailed) | .524 | .478 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .021 | .000 |
| | | Sig. (2-tailed) | .588 | .997 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | -.026 | -.001 |
| | | Sig. (2-tailed) | .514 | .979 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | .019 | -.076 |
| | | Sig. (2-tailed) | .622 | .051 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | -.059 | .100* |
| | | Sig. (2-tailed) | .135 | .010 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | 1.000 | .144** |
| | | Sig. (2-tailed) | . | .000 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | .144** | 1.000 |
| | | Sig. (2-tailed) | .000 | . |
| | | N | 649 | 649 |
| Going out with friends | Correlation Coefficient | .088* | .354** | |
| | Sig. (2-tailed) | .025 | .000 | |
| | N | 649 | 649 | |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Going out with friends | Workday alcohol consumption |
|------------------------|-------------------------------|-------------------------|------------------------|-----------------------------|
| Spearman's rho | Student age | Correlation Coefficient | .131** | .081* |
| | | Sig. (2-tailed) | .001 | .038 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | .010 | .002 |
| | | Sig. (2-tailed) | .795 | .960 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .029 | -.005 |
| | | Sig. (2-tailed) | .464 | .901 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | .041 | .068 |
| | | Sig. (2-tailed) | .300 | .081 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | -.082* | -.171** |
| | | Sig. (2-tailed) | .036 | .000 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | .042 | .109** |
| | | Sig. (2-tailed) | .289 | .005 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | .088* | -.098* |
| | | Sig. (2-tailed) | .025 | .013 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | .354** | .127** |
| | | Sig. (2-tailed) | .000 | .001 |
| | | N | 649 | 649 |
| Going out with friends | Correlation Coefficient | 1.000 | .234** | |
| | Sig. (2-tailed) | . | .000 | |
| | N | 649 | 649 | |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Weekend alcohol consumption | Current health status |
|----------------|-------------------------------|-------------------------|-----------------------------|-----------------------|
| Spearman's rho | Student age | Correlation Coefficient | .094* | -.018 |
| | | Sig. (2-tailed) | .016 | .646 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | -.018 | .016 |
| | | Sig. (2-tailed) | .643 | .682 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .030 | .046 |
| | | Sig. (2-tailed) | .450 | .238 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | .032 | -.064 |
| | | Sig. (2-tailed) | .423 | .104 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | -.222** | -.077 |
| | | Sig. (2-tailed) | .000 | .051 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | .065 | .041 |
| | | Sig. (2-tailed) | .099 | .295 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | -.102** | .093* |
| | | Sig. (2-tailed) | .009 | .018 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | .120** | .095* |
| | | Sig. (2-tailed) | .002 | .015 |
| | | N | 649 | 649 |
| | Going out with friends | Correlation Coefficient | .372** | -.012 |
| | | Sig. (2-tailed) | .000 | .758 |
| | | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Number of school absences | First period grade |
|----------------|-------------------------------|-------------------------|---------------------------|--------------------|
| Spearman's rho | Student age | Correlation Coefficient | .124** | -.167** |
| | | Sig. (2-tailed) | .002 | .000 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | -.006 | .276** |
| | | Sig. (2-tailed) | .879 | .000 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .032 | .235** |
| | | Sig. (2-tailed) | .415 | .000 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | .023 | -.166** |
| | | Sig. (2-tailed) | .560 | .000 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | -.117** | .271** |
| | | Sig. (2-tailed) | .003 | .000 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | .121** | -.432** |
| | | Sig. (2-tailed) | .002 | .000 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | -.104** | .026 |
| | | Sig. (2-tailed) | .008 | .503 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | -.028 | -.105** |
| | | Sig. (2-tailed) | .469 | .007 |
| | | N | 649 | 649 |
| | Going out with friends | Correlation Coefficient | .104** | -.078* |
| | | Sig. (2-tailed) | .008 | .046 |
| | | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | | Second period grade | Final grade |
|------------------------|-------------------------------|-------------------------|---------------------|-------------|
| Spearman's rho | Student age | Correlation Coefficient | -.106** | -.066 |
| | | Sig. (2-tailed) | .007 | .092 |
| | | N | 649 | 649 |
| | Mother education | Correlation Coefficient | .286** | .284** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Father education | Correlation Coefficient | .246** | .235** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Home to school travel time | Correlation Coefficient | -.167** | -.147** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Weekly study time | Correlation Coefficient | .259** | .275** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Number of past class failures | Correlation Coefficient | -.436** | -.448** |
| | | Sig. (2-tailed) | .000 | .000 |
| | | N | 649 | 649 |
| | Family relationship quality | Correlation Coefficient | .059 | .048 |
| | | Sig. (2-tailed) | .135 | .224 |
| | | N | 649 | 649 |
| | Free time after school | Correlation Coefficient | -.121** | -.128** |
| | | Sig. (2-tailed) | .002 | .001 |
| | | N | 649 | 649 |
| Going out with friends | Correlation Coefficient | -.112** | -.105** | |
| | Sig. (2-tailed) | .004 | .007 | |
| | N | 649 | 649 | |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Student age | Mother education |
|-----------------------------|-------------------------|-------------|------------------|
| Workday alcohol consumption | Correlation Coefficient | .081* | .002 |
| | Sig. (2-tailed) | .038 | .960 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | .094* | -.018 |
| | Sig. (2-tailed) | .016 | .643 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | -.018 | .016 |
| | Sig. (2-tailed) | .646 | .682 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | .124** | -.006 |
| | Sig. (2-tailed) | .002 | .879 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | -.167** | .276** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | -.106** | .286** |
| | Sig. (2-tailed) | .007 | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | -.066 | .284** |
| | Sig. (2-tailed) | .092 | .000 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Father education | Home to school travel time |
|-----------------------------|-------------------------|------------------|----------------------------|
| Workday alcohol consumption | Correlation Coefficient | -.005 | .068 |
| | Sig. (2-tailed) | .901 | .081 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | .030 | .032 |
| | Sig. (2-tailed) | .450 | .423 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | .046 | -.064 |
| | Sig. (2-tailed) | .238 | .104 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | .032 | .023 |
| | Sig. (2-tailed) | .415 | .560 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | .235** | -.166** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | .246** | -.167** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | .235** | -.147** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Weekly study time | Number of past class failures |
|-----------------------------|-------------------------|-------------------|-------------------------------|
| Workday alcohol consumption | Correlation Coefficient | -.171** | .109** |
| | Sig. (2-tailed) | .000 | .005 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | -.222** | .065 |
| | Sig. (2-tailed) | .000 | .099 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | -.077 | .041 |
| | Sig. (2-tailed) | .051 | .295 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | -.117** | .121** |
| | Sig. (2-tailed) | .003 | .002 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | .271** | -.432** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | .259** | -.436** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | .275** | -.448** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Family relationship quality | Free time after school |
|-----------------------------|-------------------------|-----------------------------|------------------------|
| Workday alcohol consumption | Correlation Coefficient | -.098* | .127** |
| | Sig. (2-tailed) | .013 | .001 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | -.102** | .120** |
| | Sig. (2-tailed) | .009 | .002 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | .093* | .095* |
| | Sig. (2-tailed) | .018 | .015 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | -.104** | -.028 |
| | Sig. (2-tailed) | .008 | .469 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | .026 | -.105** |
| | Sig. (2-tailed) | .503 | .007 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | .059 | -.121** |
| | Sig. (2-tailed) | .135 | .002 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | .048 | -.128** |
| | Sig. (2-tailed) | .224 | .001 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Going out with friends | Workday alcohol consumption |
|-----------------------------|-------------------------|------------------------|-----------------------------|
| Workday alcohol consumption | Correlation Coefficient | .234** | 1.000 |
| | Sig. (2-tailed) | .000 | . |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | .372** | .613** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | -.012 | .085* |
| | Sig. (2-tailed) | .758 | .030 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | .104** | .104** |
| | Sig. (2-tailed) | .008 | .008 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | -.078* | -.198** |
| | Sig. (2-tailed) | .046 | .000 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | -.112** | -.201** |
| | Sig. (2-tailed) | .004 | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | -.105** | -.208** |
| | Sig. (2-tailed) | .007 | .000 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Weekend alcohol consumption | Current health status |
|-----------------------------|-------------------------|-----------------------------|-----------------------|
| Workday alcohol consumption | Correlation Coefficient | .613** | .085* |
| | Sig. (2-tailed) | .000 | .030 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | 1.000 | .114** |
| | Sig. (2-tailed) | . | .004 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | .114** | 1.000 |
| | Sig. (2-tailed) | .004 | . |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | .145** | -.011 |
| | Sig. (2-tailed) | .000 | .776 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | -.158** | -.063 |
| | Sig. (2-tailed) | .000 | .108 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | -.170** | -.099* |
| | Sig. (2-tailed) | .000 | .011 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | -.171** | -.106** |
| | Sig. (2-tailed) | .000 | .007 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Number of school absences | First period grade |
|-----------------------------|-------------------------|---------------------------|--------------------|
| Workday alcohol consumption | Correlation Coefficient | .104** | -.198** |
| | Sig. (2-tailed) | .008 | .000 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | .145** | -.158** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | -.011 | -.063 |
| | Sig. (2-tailed) | .776 | .108 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | 1.000 | -.170** |
| | Sig. (2-tailed) | . | .000 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | -.170** | 1.000 |
| | Sig. (2-tailed) | .000 | . |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | -.164** | .893** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | -.159** | .883** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |

Correlation Heatmap - Spearman Rank Correlation Matrix
Spearman rho values for monotonic relationships and ordinal

Correlations

| | | Second period grade | Final grade |
|-----------------------------|-------------------------|---------------------|-------------|
| Workday alcohol consumption | Correlation Coefficient | -.201** | -.208** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Weekend alcohol consumption | Correlation Coefficient | -.170** | -.171** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Current health status | Correlation Coefficient | -.099* | -.106** |
| | Sig. (2-tailed) | .011 | .007 |
| | N | 649 | 649 |
| Number of school absences | Correlation Coefficient | -.164** | -.159** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| First period grade | Correlation Coefficient | .893** | .883** |
| | Sig. (2-tailed) | .000 | .000 |
| | N | 649 | 649 |
| Second period grade | Correlation Coefficient | 1.000 | .944** |
| | Sig. (2-tailed) | . | .000 |
| | N | 649 | 649 |
| Final grade | Correlation Coefficient | .944** | 1.000 |
| | Sig. (2-tailed) | .000 | . |
| | N | 649 | 649 |

** . Correlation is significant at the 0.01 level (2-tailed).

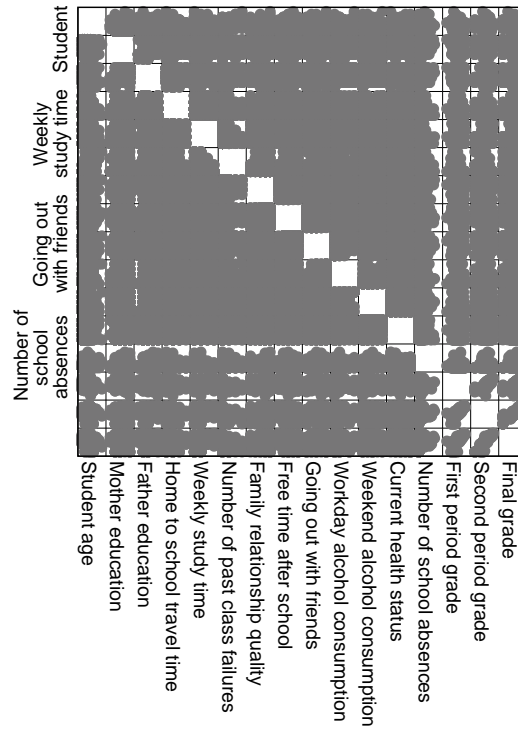
* . Correlation is significant at the 0.05 level (2-tailed).

Correlation Heatmap - Scatterplot Matrix Context

```
>Warning # 2004. Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length. The first 60 characters  
>will be used.
```

Correlation Heatmap - Scatterplot Matrix Context
Use this matrix to visually check linear patterns, outliers,

Graph



```
File "<string>", line 159
```

```
ax.text(j, i, f"{value:.2f}", ha="center", va="center", fontsize=8)
```

```
^
```

```
SyntaxError: invalid syntax
```