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SPSS
ANALYTICS PARTNER

Tech Tips - Looking for Relationships in Data in IBM SPSS Modeler

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Tech Tips - Looking for Relationships in Data

- **Data Type: Categorical by Categorical**
  - Analysis: Matrix Node
  - Visual: Web Plot

Matrix   Web

- **Data Type: Categorical by Numeric**
  - Analysis: Means Node
  - Visual: Histogram Node

Means   Histogram

- **Data Type: Numeric by Numeric**
  - Analysis: Statistics Node
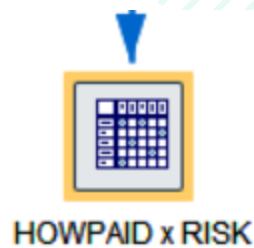 - Visual: Plot

Statistics   Plot

Tech Tips - Looking for Relationships in Data

- **Categorical x Categorical**
  - For example: We want to examine the relationship between how customers are paid (HOWPAID) and credit risk (RISK).
  - **Test:** Crosstabs and chi-square
  - **Node:** Matrix
  - **Location:** Output palette

HOWPAID x RISK

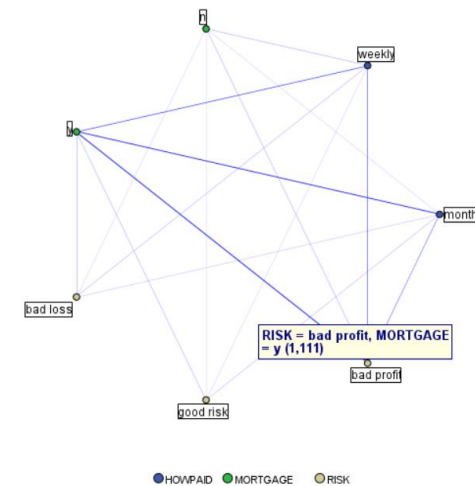**Matrix of HOWPAID by RISK #2**

File Edit Generate

Matrix Appearance Annotations

RISK

HOWPAID		bad loss	bad profit	good risk
monthly	Count	234	669	293
	Row %	19.565	55.936	24.498
weekly	Count	325	806	128
	Row %	25.814	64.019	10.167

Cells contain: cross-tabulation of fields (including missing values)

Chi-square = 90.649, df = 2, probability = 0

OK

RISK = bad profit, MORTGAGE = y (1,111)

weekly

monthly

bad loss
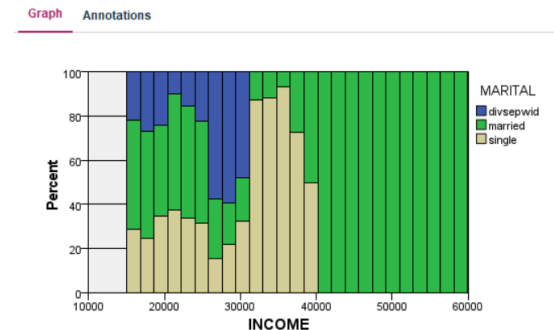
bad profit

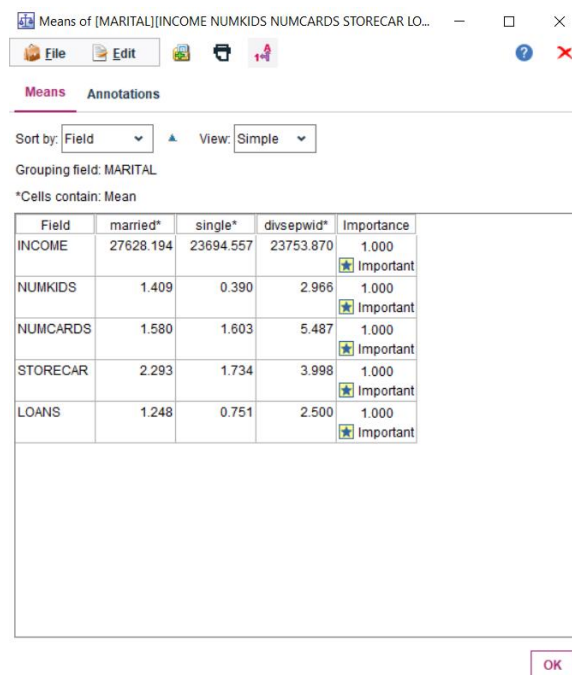good risk

● HOWPAID ● MORTGAGE ● RISK

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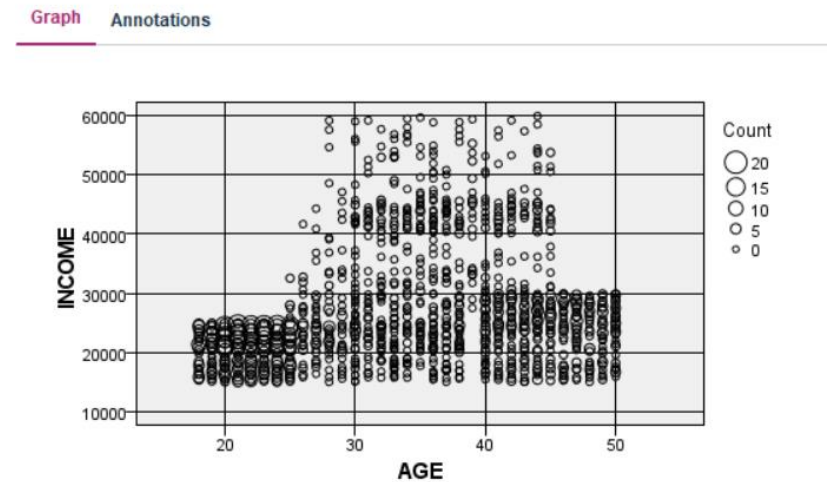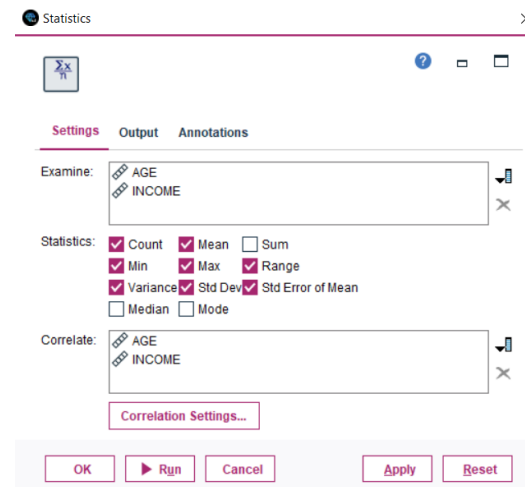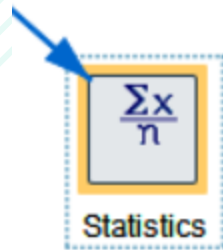# Tech Tips - Looking for Relationships in Data

- **Categorical x Numeric**
  - For example: I want to examine average income (INCOME) and number of cards (NUMCARDS) across categories of marital status.
  - **Test:** F test
  - **Node:** Means
  - **Location:** Output palette

Tech Tips - **Looking for Relationships in Data**

- **Numeric x Numeric**
  - For example: I want to examine the association between age (AGE) and income (INCOME).
  - **Test:** Correlation
  - **Node:** Statistics
  - **Location:** Output palette

SPSS Tech Tips

For more **Tech Tips**, go to the Tech Tips section within the Learning Hub.

Contact us

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Thank you.

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