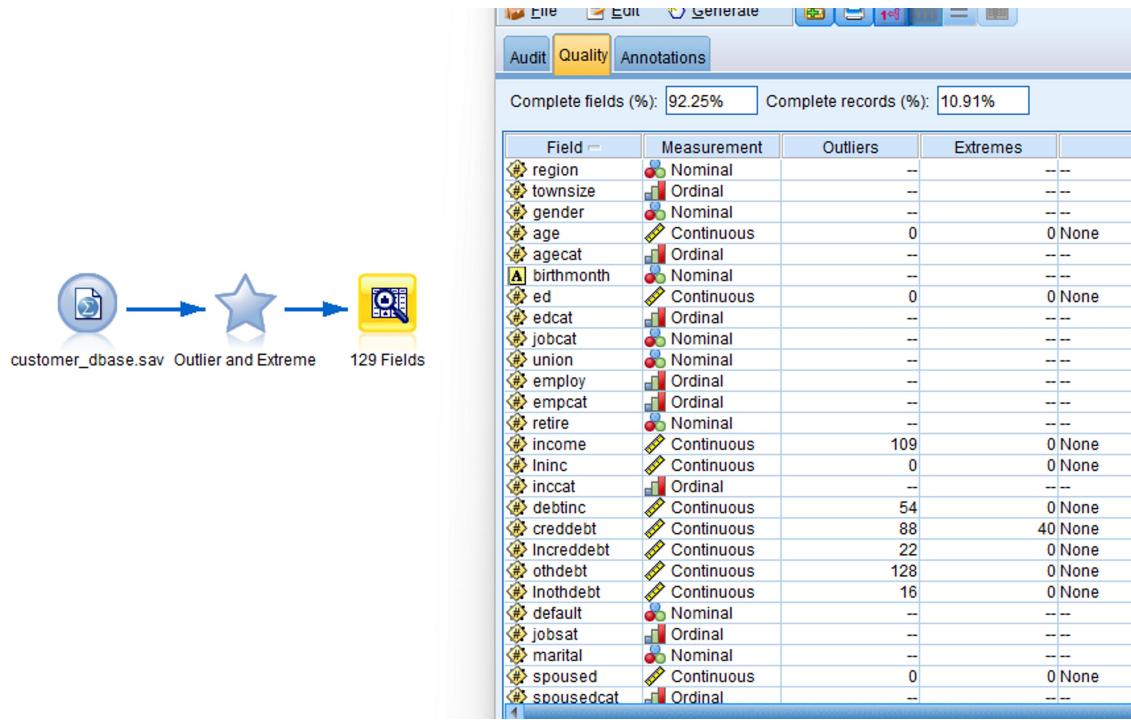


Week 4 HW - SPSS

Wednesday, August 31, 2022 2:25 PM

Question 1.



Question 2.

Preview from Withoud Dollars Node (12 fields, 10 records)

File Edit Generate

Table Annotations

| | Is | State | City | Revenue | Expenses | Profit | Growth | Withoud Dollars |
|----|------|-------|----------------|-------------------|-------------------|-------------------|--------|-------------------|
| 1 | 00 | TN | Franklin | 9684527.000 | 1,130,700 Dollars | 8553827.000 | 0.190 | 1,130,700 |
| 2 | 00 | PA | Newtown Square | 14016543.0... | 804,035 Dollars | 13212508.0... | 0.200 | 804,035 |
| 3 | II\$ | SC | Greenville | 9746272.000 | 1,044,375 Dollars | 8701897.000 | 0.160 | 1,044,375 |
| 4 | 00 | CA | Orange | 15359369.0... | 4,631,808 Dollars | 10727561.0... | 0.190 | 4,631,808 |
| 5 | 00 | WI | Madison | 8567910.000 | 4,374,841 Dollars | 4193069.000 | 0.190 | 4,374,841 |
| 6 | 00 | NJ | Manalapan | 12805452.0... | 4,626,275 Dollars | 8179177.000 | 0.220 | 4,626,275 |
| 7 | 00 | MO | Clayton | 5387469.000 | 2,127,984 Dollars | 3259485.000 | 0.170 | 2,127,984 |
| 8 | 00 | NY | Woodside | \$null\$ \$null\$ | | \$null\$ \$null\$ | | \$null\$ \$null\$ |
| 9 | 00 | CA | San Ramon | 11757018.0... | 6,482,465 Dollars | 5274553.000 | 0.300 | 6,482,465 |
| 10 | 00 | FL | Boca Raton | 12329371.0... | 916,455 Dollars | 11412916.0... | 0.200 | 916,455 |

OK

Field type: Categorical

Formula:

```
l replace('Dollars', '', Expenses)
```

Question 3.

Preview from Withoud Dollars Node (12 fields, 10 records)

File Edit Generate

Table Annotations

| | Is | State | City | Revenue | Expenses | Profit | Growth | Withoud Dollars |
|----|------|-------|----------------|-------------------|-------------------|-------------------|--------|-------------------|
| 1 | 00 | TN | Franklin | 9684527.000 | 1,130,700 Dollars | 8553827.000 | 0.190 | 1,130,700 |
| 2 | 00 | PA | Newtown Square | 14016543.0... | 804,035 Dollars | 13212508.0... | 0.200 | 804,035 |
| 3 | II\$ | SC | Greenville | 9746272.000 | 1,044,375 Dollars | 8701897.000 | 0.160 | 1,044,375 |
| 4 | 00 | CA | Orange | 15359369.0... | 4,631,808 Dollars | 10727561.0... | 0.190 | 4,631,808 |
| 5 | 00 | WI | Madison | 8567910.000 | 4,374,841 Dollars | 4193069.000 | 0.190 | 4,374,841 |
| 6 | 00 | NJ | Manalapan | 12805452.0... | 4,626,275 Dollars | 8179177.000 | 0.220 | 4,626,275 |
| 7 | 00 | MO | Clayton | 5387469.000 | 2,127,984 Dollars | 3259485.000 | 0.170 | 2,127,984 |
| 8 | 00 | NY | Woodside | \$null\$ \$null\$ | | \$null\$ \$null\$ | | \$null\$ \$null\$ |
| 9 | 00 | CA | San Ramon | 11757018.0... | 6,482,465 Dollars | 5274553.000 | 0.300 | 6,482,465 |
| 10 | 00 | FL | Boca Raton | 12329371.0... | 916,455 Dollars | 11412916.0... | 0.200 | 916,455 |

OK

Field type: Categorical

Formula:

```
l replace('Dollars', '', Expenses)
```

Question 4.

Aggregate

Preview

Settings Optimization Annotations

Key fields:

Industry

Basic Aggregates

Aggregate fields:

| Field | Sum | Mean | Min | Max |
|--------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Profit | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Default mode: Sum Mean Min Max

New field name extension:

Include record count in field Record_Count

Table Annotations

| | Industry | Profit_Sum |
|---|---------------------|-----------------|
| 1 | Software | 262674477.0... |
| 2 | IT Services | 1462865960.0... |
| 3 | Retail | 359170939.0... |
| 4 | Financial Services | 447977693.0... |
| 5 | Construction | 2258655566.0... |
| 6 | Health | 251918192.0... |
| 7 | | 11432932.000 |
| 8 | Government Services | 234752300.0... |

Question 5.

Table Annotations

| | City | Revenue | Expenses | Profit | Growth | Margin |
|----|----------------|---------------|-------------------|---------------|----------|----------|
| 1 | Franklin | 9684527.000 | 1,130,700 Dollars | 8553827.000 | 0.190 | 0.883 |
| 2 | Newtown Square | 14016543.0... | 804,035 Dollars | 13212508.0... | 0.200 | 0.943 |
| 3 | Greenville | 9746272.000 | 1,044,375 Dollars | 8701897.000 | 0.160 | 0.893 |
| 4 | Orange | 15359369.0... | 4,631,808 Dollars | 10727561.0... | 0.190 | 0.698 |
| 5 | Madison | 8567910.000 | 4,374,841 Dollars | 4193069.000 | 0.190 | 0.489 |
| 6 | Manalapan | 12805452.0... | 4,626,275 Dollars | 8179177.000 | 0.220 | 0.639 |
| 7 | Clayton | 5387469.000 | 2,127,984 Dollars | 3259485.000 | 0.170 | 0.605 |
| 8 | Woodside | \$null\$ | \$null\$ | \$null\$ | \$null\$ | \$null\$ |
| 9 | San Ramon | 11757018.0... | 6,482,465 Dollars | 5274553.000 | 0.300 | 0.449 |
| 10 | Boca Raton | 12329371.0... | 916,455 Dollars | 11412916.0... | 0.200 | 0.926 |

OK

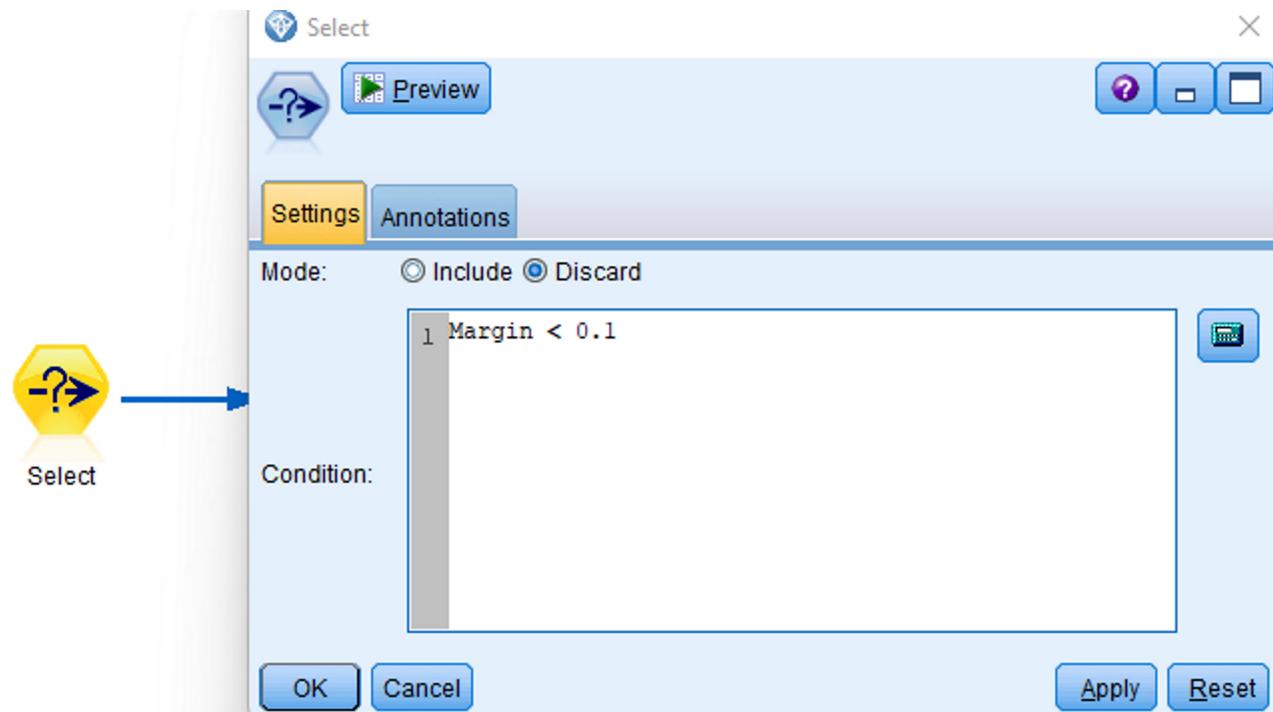
Derive field: Margin

Derive as: Formula

Field type: Continuous

Formula: 1 Profit / Revenue

Question 6.



Question 7.

The screenshot displays a complex KNIME workflow. At the top left is a 'Preview' window showing a table with 10 records from a 'Select Node'. The table includes columns: ID, Name, Industry, Inception, Employees, State, and City. The 'Industry' column values are: IT Services, IT Services. At the top right is a 'Quality' audit window showing statistics: Complete fields (%): 90.91% and Complete records (%): 99.32%. Below the preview is a 'Select' node configuration dialog. The 'Settings' tab is selected, showing 'Mode: Include' and the condition 'Industry = "IT Services"'. The 'Annotations' tab is also visible. A blue arrow points from the 'Annotations' tab in the main interface down to the 'Annotations' tab in the dialog.

Question 8.

Table

Annotations

| | ID | Name | Industry | Inception | Employees | State | City | Revenue |
|----|----|----------------|--------------------|-----------|-----------|-------|----------------|---------------|
| 1 | 1 | Over-Hex | Software | 2006 | 25 | TN | Franklin | 9684527.000 |
| 2 | 2 | Unimattax | IT Services | 2009 | 36 | PA | Newtown Square | 14016543.0... |
| 3 | 3 | Greenfax | Retail | 2012 | \$null\$ | SC | Greenville | 9746272.000 |
| 4 | 4 | Blacklane | IT Services | 2011 | 66 | CA | Orange | 15359369.0... |
| 5 | 5 | Yearflex | Software | 2013 | 45 | WI | Madison | 8567910.000 |
| 6 | 6 | Indigoplanet | IT Services | 2013 | 60 | NJ | Manalapan | 12805452.0... |
| 7 | 7 | Treslam | Financial Services | 2009 | 116 | MO | Clayton | 5387469.000 |
| 8 | 8 | Rednimdox | Construction | 2013 | 73 | NY | Woodside | \$null\$ |
| 9 | 9 | Lamtone | IT Services | 2009 | 55 | CA | San Ramon | 11757018.0... |
| 10 | 10 | Stripfind | Financial Services | 2010 | 25 | FL | Boca Raton | 12329371.0... |
| 11 | 11 | Canecorp... | Health | 2012 | 6 | | New York | 10597009.0... |
| 12 | 12 | Mattouch | IT Services | 2013 | 6 | WA | Bellevue | 14026934.0... |
| 13 | 13 | Techdrill | Health | 2009 | 9 | MS | Flowood | 10573990.0... |
| 14 | 14 | Techline | | 2006 | 65 | CA | San Ramon | 13898119.0... |
| 15 | 15 | Cityace | | 2010 | 25 | CO | Louisville | 9254614.000 |
| 16 | 16 | Kayelectron... | Health | 2009 | 687 | NC | Clayton | 9451943.000 |
| 17 | 17 | Ganzlax | IT Services | 2011 | 75 | NJ | Iselin | 14001180.0... |
| 18 | 18 | Trantraxlax | Government Serv... | 2011 | 35 | VA | Suffolk | 11088336.0... |
| 19 | 19 | E-Zim | Retail | 2008 | 320 | OH | Monroe | 10746451.0... |
| 20 | 20 | Dalfase | Software | 2011 | 78 | NC | Durham | 10410628.0... |

1



Settings

Format

Output

Annotations

| Field | Format | Justify | Column Width |
|-------------|--------|---------|--------------|
| # ID | ####. | Auto | Auto |
| A Name | | Auto | Auto |
| A Industry | | Auto | Auto |
| # Inception | ####. | Auto | Auto |
| # Employees | ####. | Auto | Auto |
| A State | | Auto | Auto |

elds

