Iris Dataset: Tableau Visualization Guide

1. 1D Visualization: Histogram - Sepal Length Distribution

- Drag `sepal_length` to Columns -> Create Bins (size 0.5).

- Drag `Number of Records` to Rows.

- Drag `species` to Color.

2. 2D Visualization: Scatter Plot - Sepal Length vs. Petal Length

- Drag `sepal_length` to Columns, `petal_length` to Rows.

- Drag `species` to Color.

3. "3D" Workaround: Scatter Plot with Petal Width as Size

- Same as above, add `petal_width` to Size.

4. Temporal Visualization: Observation Order vs. Sepal Length

- Create calculated field: INDEX().

- Drag INDEX() to Columns, `sepal_length` to Rows.

- Drag `species` to Color. Change mark type to Line.

5. Multidimensional Visualization: Scatter Plot Matrix

- Ctrl-select all four measures.

- Click "Show Me" -> Scatter Plot Matrix.

- Drag `species` to Color.

6. Tree/Hierarchical Visualization: Treemap - Species by Average Petal Size

- Drag `species` to Columns.

- Drag AVG(petal_length) to Size, AVG(petal_width) to Color.

- Click "Show Me" -> Treemap.

7. Network Visualization (Workaround): Group by Sepal Size

- Create calculated field: IF [sepal_length] > 6 THEN "Large" ELSE "Small"

- Drag `species` to Columns, group to Rows.

- COUNTD(id) to Size. Use Circle marks.