**Lesson Demo**

**Histograms**

**Business Scenario**:

The plant manager wants to analyze the distribution of distinct orders placed by the customers and the performance of those customers by creating visualizations that will help him analyze the profit ranked by customer orders.

●    How many orders have been placed in bin 4? (**Note**: Enable Labels)

●    Which customer is generating the highest profit, and what is the value and number of orders placed by that customer?

**Overview:**

* Create a calculated field to show distinct orders placed by the customer using an LOD calculation
* Create a calculated field to generate the rank of customers using the index function
* Create a view using these calculated fields
* Break the view by placing the customer name in detail
* Color the view with profit
* Set the scope of table calculation applied to rank as customer name
* Sort the calculations in ascending order based on profit
* Change the default color of marks using the color property

The result should resemble the image given below:



**Detailed Instructions:**

1. Open a new sheet in the same workbook
2. Select the **Create Calculated Field** on the analysis menuGraphical user interface, application

   Description automatically generated
3. Select **Count Distinct Orders** in the name box of calculated field window
4. In the formula box, type: **{FIXED [Customer Name]:COUNTD([Order ID])}**
5. Click **OK**

Graphical user interface, application

Description automatically generated

1. Create another calculated field for **Index**
2. In the formula box, type **INDEX()**
3. Click **OK**

Graphical user interface, application

Description automatically generated

1. To create a view, drag and drop **Count Distinct Orders** from dimensions to columns

Graphical user interface, text, application

Description automatically generated

1. Right-click on **Count Distinct Orders** pill to change into **Dimension**

Graphical user interface, application

Description automatically generated

1. From measures, drag and drop **Index** to **Rows**

Chart, line chart

Description automatically generated

1. From measures, locate and drag **Customer Name** to **Detail**

A picture containing chart

Description automatically generated

1. To add a table calculation, right-click on **Index** and from context menu select **Edit Table Calculation**

Graphical user interface

Description automatically generated with medium confidence

1. Select **Specific Dimensions** from the **Table Calculation** windowGraphical user interface, application

   Description automatically generated
2. Drag and drop **Customer Name** above **Count Distinct Orders**
3. Select the **Customer Name** checkbox

A screenshot of a computer

Description automatically generated with medium confidence

1. Select **Custom Sort** in the **Sort Order** drop-down
2. Select **Profit** from the drop-down list and set aggregation as **Sum**
3. Make sure the **Ascending** radio button is selected and close the window

A screenshot of a computer

Description automatically generated with medium confidence

1. Click the **Automatic** drop down and select **Gantt** under **Marks**

Chart, bar chart

Description automatically generated

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Chart

Description automatically generated

1. Drag the **Profit** measure to **Color**

Chart

Description automatically generated

1. Click **Color** and select **Edit Colors** to edit color

Chart

Description automatically generated

1. Select the **Orange-Blue Diverging** palette from the **Edit Colors** window

A screenshot of a computer

Description automatically generated with medium confidence

1. Click **OK**

A screenshot of a computer

Description automatically generated

1. Right-click on the Y-axis or X-axis to change the intervals. In the **Edit Axis window,** select **Major Tick Marks** as **Fixed** and set the interval as **20** or as required

Graphical user interface, application

Description automatically generated

1. Rename this sheet as **Profit ranked by Customer Orders**

A screenshot of a computer

Description automatically generated with medium confidence

1. Save this workbook as **Lesson 7 - Exercises**
2. Close the workbook

**Answers**

Based on the view, these are the answers to the questions in the problem statement:

* How many orders have been placed in the bin 4? Answer: **96**
* Which customer is generating highest profit and what’s the value and number of orders placed by that customer?

Answer: **Tamara Chand, $8981, and 5**