**1. Basics:**

1. What is the difference between Discrete and Continuous Data?

ANS:

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| --- | --- |
| **Discrete Data** | **Continuous Data** |
| It is a thing that we can Count. | It is a thing that we can measure |
| Discrete data is countable | continuous measurable. |
| We can not apply any aggregate function | We can apply any aggregate function |
| EX. Days Of week | EX. Market Price Of Product |

1. What is the criteria for data to land into dimensions and measures?

ANS:

|  |  |
| --- | --- |
| **Dimensions** | **Measures** |
| It contains Discrete Values | It contains Continuous Values |
| We can not apply any aggregate function | We can apply any aggregate function |
| EX. Name Of Mobiles like M1, M2,M3  That we can’t Calculate | EX. Price Of Mobiles like SUM(10k,80k,20k) |

1. What is Metadata, where is it present in the workbook?

ANS: In metadata we can perform Hide operation and it is present in left bottom in the workbook

1. What happens when you aggregate or disaggregate the Data?
2. You are working on a dataset, the client adds in more data to the dataset. What happens to the Visualization that you had created? Give the explanation for both Live and Extracted data.
3. What are the file extensions in Tableau and how each one is different?

ANS:

|  |  |  |
| --- | --- | --- |
| **File Type** | **File Extension** | **Purpose** |
| **Tableau Workbook** | .twb | It contains information on each sheet and dashboard that is present in a workbook. It has the details of the fields, which are used in each view and the formula applied to the aggregation of the measures. |
| **Tableau Packaged Workbook** | .twbx | This file format contains the details of a workbook as well as the local data that is used in the analysis. Its purpose is to share with other Tableau desktop or Tableau reader users, assuming it does not need data from the server. |
| **Tableau Data Source** | .tds | The details of the connection used to create the tableau report are stored in this file. In the connection details, it stores the source type (excel/relational/sap, etc.) as well as the data types of the columns. |
| **Tableau Packaged Data source** | .tdsx | This file is similar to the .tds file with the addition of data along with the connection details. |
| **Tableau Data Extract** | .tde | This file contains the data used in a .twb file in a highly compressed columnar data format. This helps in storage optimization. It also saves the aggregated calculations that are applied in the analysis. This file should be refreshed to get the updated data from the source. |
| **Tableau Bookmark** | .tbm | These files contain a single worksheet that is shared easily to be pasted into other workbooks. |
| **Tableau Preferences** | .tps | This file stores the color preference used across all the workbooks. It is mainly used for consistent look and feel across the users. |

**2. Text Table, Highlight Tables, Heat Maps, Tree Map:**

1. Create a text table for the Avg (Sales) for each subcategory using Sample Superstore? List which Sub Category is got Avg (Sale) more than $1000? - **Sample Superstore**
2. Create a Heat Table for the order date and Region against the Sub Category based in Count of Sales with two colours diverging that is distinguished by Sum of Profit - **Sample Superstore**
3. Create a Highlight table for the States for the Order Date Year whose highlighting is done based on Sum of profits - **Sample Superstore**
4. Which customer is having maximum of sales in the year 2012? - **Global Superstore**
5. How much is profit share less in Pennsylvania when compared to New York? - **Sample Superstore**
6. Check for the pane wise percentages of sales with Category, Sub- Category and quarter wise order date, also check for the Row wise grand totals and Column wise grand totals. - **Sample Superstore**

**3. Filled Maps, Symbol Maps:**

1. Use Global Superstore. Check Which Western Country in EMEA region has least profit percentage.
2. Use **“Sample Superstore. Xls”,** which state shares boarders only profit for tables
3. Use **“Sample Superstore. Xls”,** which state has no data for Profits for Office Supplies

**4. Bar Charts, Stacked, Side by Side:**

1. Which Customer name & Year is having all the Product Categories sum of profit less than over-all Average profit? - **Sample Superstore**
2. What is the Maximum of Life Expectancy Female for the region Africa & year 2012? - **World Indicators**
3. What is the share of the top 20 customers based on the sales amount compared to the customers based on profit amounts - **Sample Superstore**

**5. Line Graphs, Dual Line, dual axis:**

1. How can you show two different graphs in one view? - **Global Superstore**
2. Which Region is having Sum of Energy Usage>1000000 and sum of Population 65+>10? - **World Indicators**

**6. Trendlines, Cluster, scatter Plot, boxplot, Word Cloud (Packed Bubbles), Histogram:**

1. Draw a trend line for profit as a linear function of sales only for product technology? - **Sample Superstore**
2. Create a histogram showing the number of Sales using Sales Bins of $1000. Which bins have profit ratios of more than 25%? - **Global Superstore**
3. Using “**Sample Superstore”**, use order sheet create a histogram showing the number of orders using sales bins of $1000.
4. Using **“Global Superstore**”, use the orders sheet, build a scatter plot showing the sum of sales on the x-axis and sum of profits on the y axis for all products (Product name). What is the equation for linear regression for products in Technology?
5. Use **“World Indicators”.**  Take Health Exp% GDP, Health Exp/Capita, Life Expectancy Male, Female. What are the variables that are considered to create the clusters by default?

**7. Calculate Fields, Quick table calculations, LOD:**

1. How do you create a profit ratio using the Calculated fields?
2. Global Superstore data set; Region wise year wise sales are ranked. What is the rank of some country when compared to last year?
3. What percent of total profits do the top 10 customers by Sales represent? - **Sample Superstore**
4. Find the customer with the lowest overall profit. What is his/her profit ratio? - **Sample Superstore**
5. Ranking States based on Sales what is the rank of state which has sales crossed $20000. - **Sample Superstore**
6. What is the percent of orders which took more than 7 days on an average to deliver.
7. Use **“World Indicators”.** Without using table calculations what is the proper syntax to build a calculated field which will display overall total GDP on this view?

**8. Filters:**

1. What are the different types of filters and give their working order?
2. Create a list of Top 10 Products based on Profits whose sale value is more than $5000? - **Global Superstore**
3. Create a Chart with Customer Name and Profit and check for the Sale Value for top 15 Customers? - **Global Superstore**
4. Apply filter to all the worksheet, filter by year 2011, then find the sum(sales) for the highest subcategory.- **Global Superstore**
5. What is the name of 375th top most customer by sum of profits - **Sample Superstore**

**9. Dashboards & story:**

1. What are the different device type preview that Dashboards can use?
2. Create a dashboard using World Indicators showing the all the Actions that can be performed in Tableau.

**10. Time Series:**

1. Use Order date and drill down the information for Quarter and Month level separately and show the line Chart in a Continuous Form- **Global Superstore**

**11. Sets, Parameters, Groups:**

1. Parameters can be used in?
2. What are the different ways to create a Parameter?

**12. Forecast:**

1. You are provided with the dataset for the past 10yrs. How can you forecast the data for next 4 years, Quarter wise.
2. Use **“Sample Superstore”.** What is the Sales Forecast Estimate for the month of September 2018?

**13. Pie Chart:**

1. Create a Pie Chart using regions and sum of sales, sort the pie in ascending order, increase the size in the view and label them with Count of Quantity and Sum of Profits- **Sample superstore**