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## Tableau Challenge

You are given with a dataset which contains the data regarding orders that were placed on an e-commerce website. As a Tableau developer you need to use the data to perform the required visualizations to the given dataset.

To perform this task, you are provided with the files required are located in the "["Desktop/Project/miniproject-tableau-orders"](#)".

### Input files:

**miniproject-tableau-orders:** This folder is available in the Project folder.

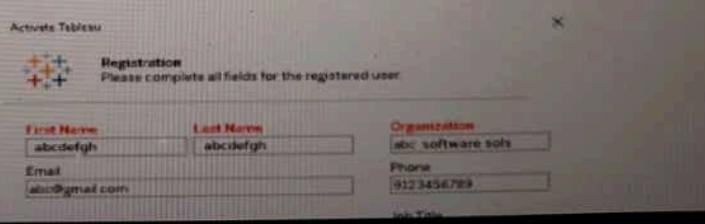
### Note:

- The **miniproject-tableau-orders** folder consists of a file named Orders\_data.csv which will be the dataset that you shall to perform the visualizations in an empty Tableau workbook with the name HackBook.twb.
- The **Output\_Data** folder is an empty folder where you can save the output data after the visualizations are performed.

### Let's Begin !!!!

Follow the instructions that are given below to transform the raw .json data into the visualizations.

- Double click **HackBook.twb**. A workbook will open in Tableau Desktop (**14-day trial version**) software.
- When prompted for user information, enter random details.



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### Let's Begin !!!!

Follow the instructions that are given below to transform the raw .json data into the visualizations.

1. Double click **HackBook.twb**. A workbook will open in Tableau Desktop (**14-day trial version**) software.
2. When prompted for user information, enter random details and click **Proceed**.
3. Create the sheets with the given chart titles following the instructions.

Activate Tableau

Registration  
Please complete all fields for the registered user.

First Name abcdefg	Last Name abcdefg	Organization abc software sols
Email abc@gmail.com	Phone 9123456789	Job Title abc
City hyd	Postal Code 524126	Department IT
Country/Region India	State/Province Andhra Pradesh	Industry Consumer Goods &...

**Proceed**

#### Sheet 1: Total Sales

**Chart Title: Total Sales of Each Sub-Category**

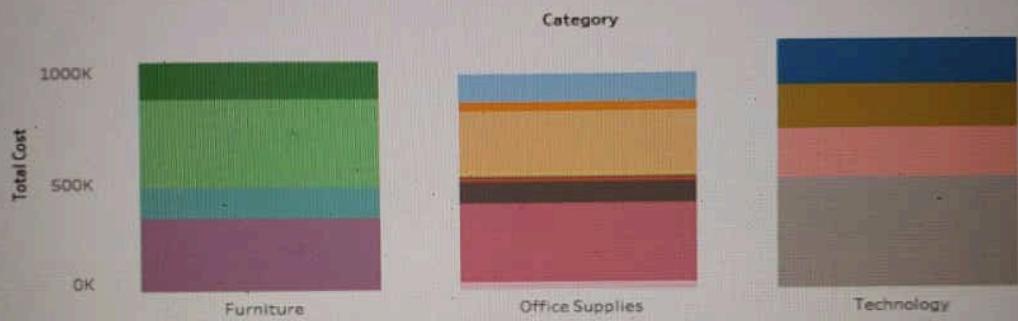
Create a **Bar chart** showing the total sales analysis.

Rows	Columns
Sum(Total_cost)	Category

1. Add the sub-category column on colour to divide the category bar into different sub-categories.

**SAMPLE OUTPUT:**

Total Sales of Each Sub-category



Note: The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → Export All**'
- The path where you should save the data for the Sheet 1 is '**/Desktop/Project/miniproject-tableau-orders/Output\_Data/TotalSales.csv**'

**Sheet 2: Average Discount**

**Chart title: Average Discount for Different Shipping Modes**

Create a **Line chart** to display the average discount for different shipping modes.

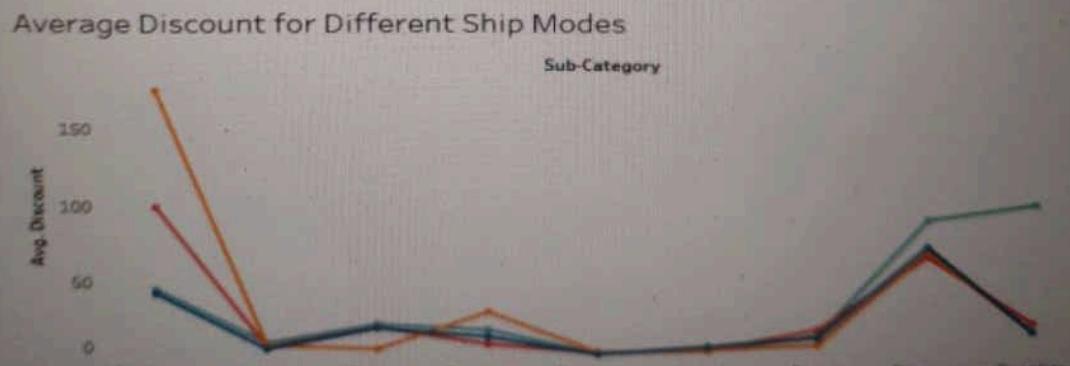
- The color of the lines should be dividing the different ship modes.
- Add a filter on the category and select only Office Supplies.

**Sheet 2: Average Discount****Chart title:** Average Discount for Different Shipping Modes

Create a **Line chart** to display the average discount for different shipping modes.

- The color of the lines should be dividing the different ship modes.
- Add a filter on the category and select only Office Supplies.

Rows	Columns
AVG(Discount)	Sub-Category

**SAMPLE OUTPUT :**

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- After you perform the visualization. Export the data obtained.
- To export your data go to 'Analysis → View Data → Export All'
- The path where you should save the data for the Sheet 2 is '/Desktop/Project/miniproject-tableau-orders/Output\_Data/AvgDiscount.csv'

#### Sheet 3: Total Quantity Sales

##### Chart Title: Total Quantity Sale of Each Sub-Category

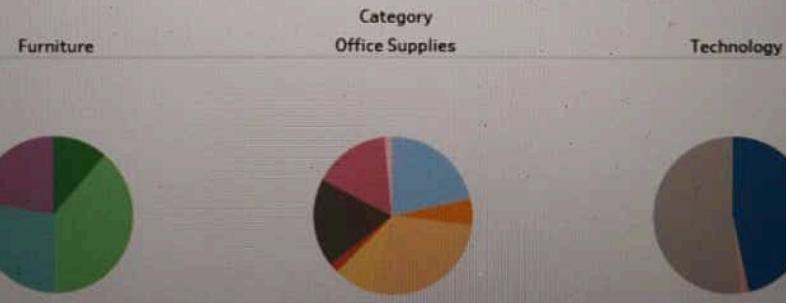
Create a pie chart that consists of three pies

- Add the Sub-Cateogry onto colour which will divide the pie into different parts.
- Add Sum(Quantity) onto the Angle.

Rows	Column
-	Category

##### SAMPLE OUTPUT :

Total Quantity Sale of Each Sub-Category



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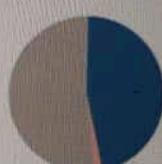
**SAMPLE OUTPUT :**

Total Quantity Sale of Each Sub-Category

Furniture

Category  
Office Supplies

Technology



**Note:** The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → Export All**'
- The path where you should save the data for the Sheet 3 is '**/Desktop/Project/miniproject-tableau-orders/Output\_Data/TotalQuantitySale.csv**'

**Sheet 4: Highest Order**

**Chart title:** Highest Order of a State

Create a heat map

- Change the datatype of the field State from string to states and provinces under Geographical role.
- Filter Category and select only Technology



**Note:** The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → Export All**'
- The path where you should save the data for the Sheet 3 is '**/Desktop/Project/miniproject-tableau-orders/Output\_Data/TotalQuantitySale.csv**'

#### **Sheet 4: Highest Order**

##### **Chart title: Highest Order of a State**

Create a heat map

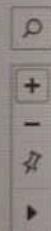
- Change the datatype of the field State from string to states and provinces under Geographical role.
  - Filter Category and select only Technology
  - Filter Ship mode and select only Same Day
  - Add Max(Total Cost) to color and change the color to Temperature Diverging

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Rows	Columns
Latitude	Longitude

**SAMPLE OUTPUT :**

Highest Order of a State



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**Note:** The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → Export All**'
- The path where you should save the data for the Sheet 4 is '**/Desktop/Project/miniproject-tableau-orders/Output\_Data/HighestOrder.csv**'

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → Export All**'
- The path where you should save the data for the Sheet 4 is '**/Desktop/Project/miniproject-tableau-orders/Output\_Data/HighestOrder.csv**'

**Validation:**

- Before closing the environment, make sure that you have saved all your visualizations into the **HackBook.twb** by going into **File->Save**
- Before closing the environment, ensure that all these output files are saved in the local directory with the output obtained after performing the visualizations.  
**'/Desktop/Project/miniproject-tableau-orders/Output\_Data'**
  - TotalSales.csv
  - AvgDiscount.csv
  - TotalQuantitySale.csv
  - HighestOrder.csv
- You can run the **tests.exe** file present in the folder to check your score before closing the environment.

**Congratulations!!! You have completed your challenge.**  
**Sit, Relax & Wait for the Result**