EX NO: 1

DATA EXPLORATION IN TABLEAU

AIM:

TO explore and visualize data using tableau by importing a dataset from microsoft Excel

ALGORITHM:

STEP 1 - create a table in microsoft Excel with the following fields : Rollno, Name, class, Department, marks, state, country

STEP 2 - Enter 15 records into the table and save the file to your desktop.

STEP 3 - open tableau → select microsoft Excel from the connect panel → Locate and open the saved Excel file from your desktop.

STEP 4 - click on sheet, from the bottom tab to begin visualization

STEP 5 - Drag and Drop the fields into the columns and rows shelves as required. use the "show me" panel to choose a suitable chat type for data visualization, you can also customize the visuals by changing colors or styles to match your preference

Output:

Sample - CSV

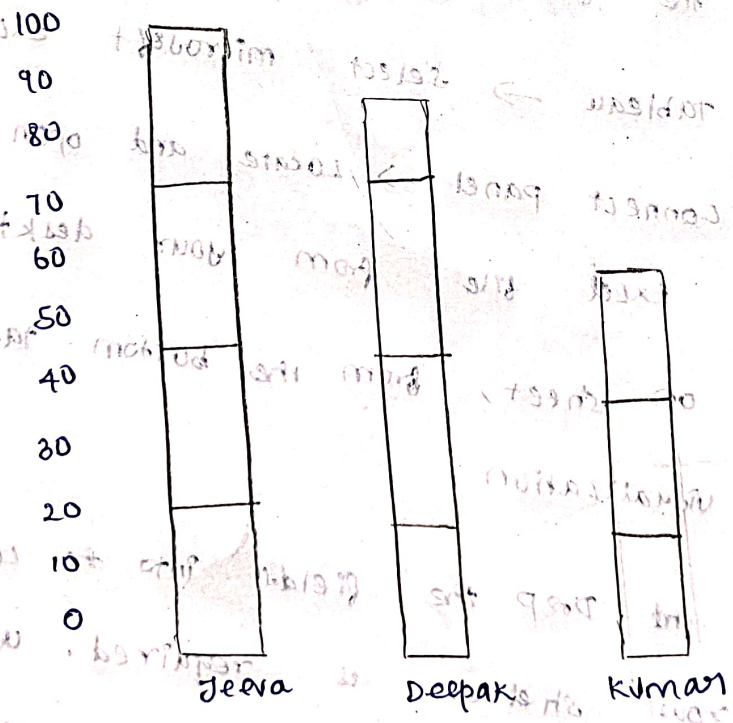
RollNo	name	marks	class	state
1	Jeeva	100	"	Tamilnadu
2	Deepak	90	"	Kerala
3	Kumar	66	"	Karnataka

Tableau window

Columns (name)

Rows (sum marks)

Sheet 1



Result:

The validation is successfully done.

Ex no:- 2

To organize and Filter Data

AIM:

To organize and filter data in Tableau to analyze and present only relevant insights from a dataset

ALGORITHM:

STEP 1 - connect to data, open Tableau → click "connect" → choose Excel / csv / Database

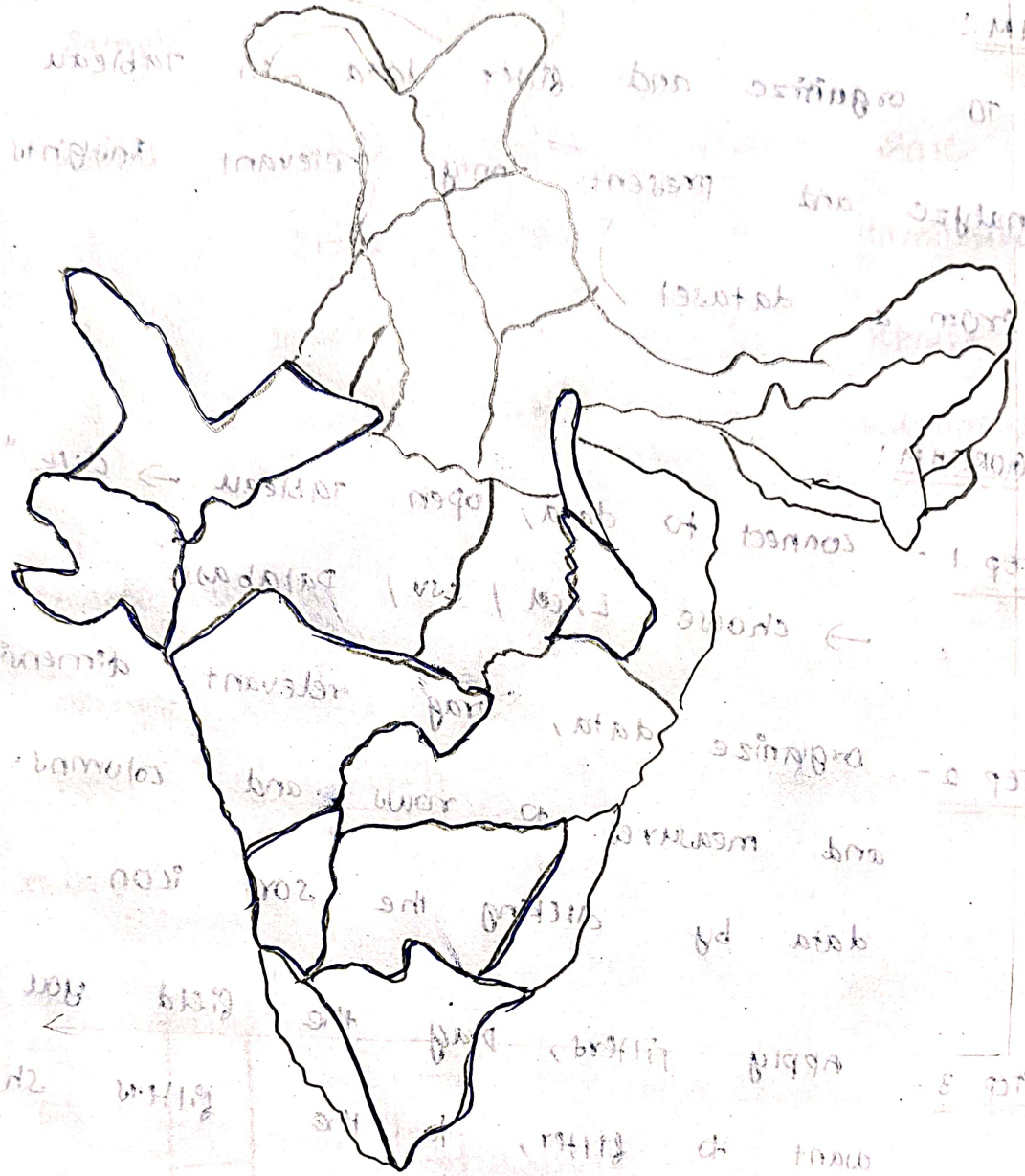
STEP 2 - organize data, Drag relevant dimensions and measures to rows and columns. sort data by clicking the sort icon.

STEP 3 - Apply filters, Drag the field you want to filter, to the filters shelf. set conditions

STEP 4 - create visualization, choose a chart from "show me" panel customize colours, Labels and titles as needed

STEP 5 - view and share, use dashboards to combine multiple views and export or publish to tableau public or server.

Output:



Result:

Thus the output is obtained successfully.

Ex no: 3

To Exhibit Analytics using Data aggregation

AIM:

To write a program to Exhibit analytics using data aggregation.

ALGORITHM:

STEP 1: - open M.s Excel, superstore Data sel → transaction id, cus-name, sales, profit, region, prod_name, prod_category

STEP 2 - open tableau → click connect data → choose the excel file

STEP 3 - click sheet 1 for building it

STEP 4 - Drag region → rows, sales → column

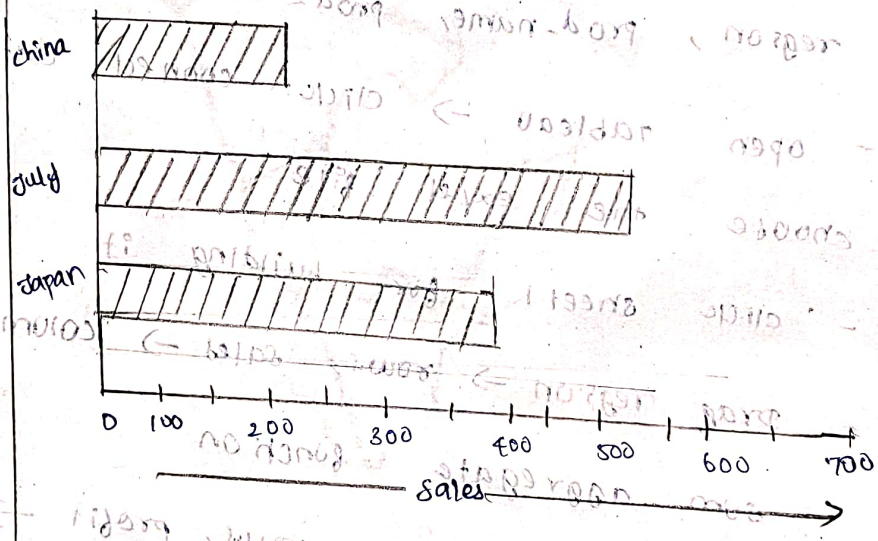
STEP 5 - sum aggregate function

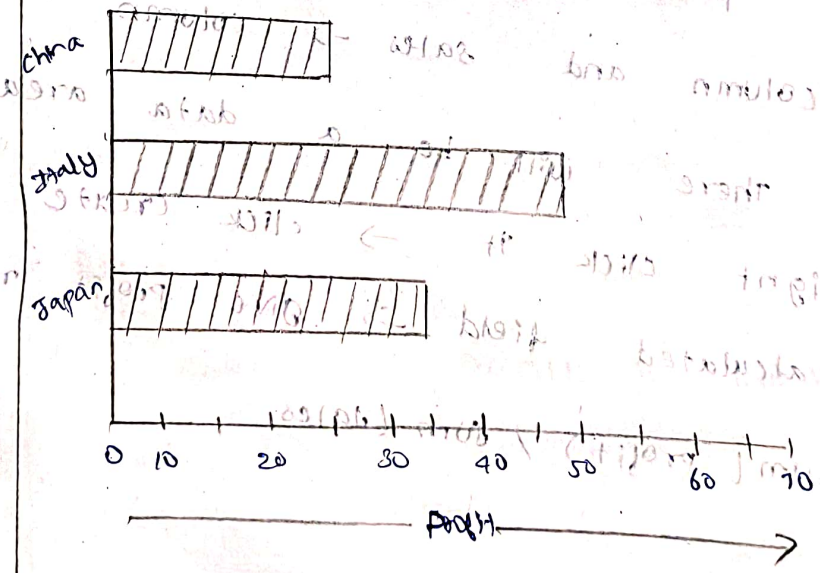
STEP 6 - prod_category → rows, profit → column and sales → column

STEP 7 - There will be a data area, right click it → click create calculated field → give profit ratio = sum(profit) / sum (sales

Output

Region	Product
China	Shirt
Italy	Pants
Japan	Shoes
Spain	Bag





Result:

Thus the output is obtained successfully.

Ex NO:- 4

To Analyze the proportional Relationship Among the Data using charts

AIM:

To analyze proportional relationships among different categories of data using visual charts in Tableau for better insight and comparision

ALGORITHM:

STEP 1 - Import dataset into Tableau

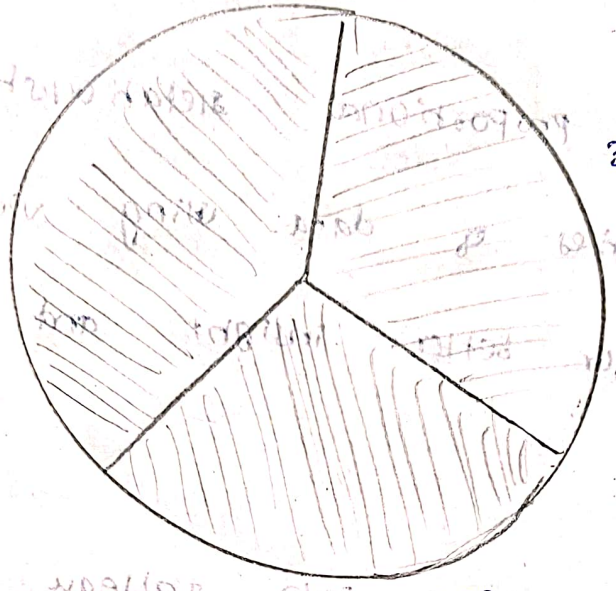
STEP 2 - Identify a categorical fields and a numerical measure

STEP 3 - choose a chart that show proportion (pie chart, tree map, stacked bar)

STEP 4 - Assign the categorical field to colour / Label and the numerical field to size / angle

STEP 5 - Interpret proportional relationship visually

Output:



Result:

Thus the output is obtained successfully.