Lab report 5



Fall 2021

CSE422L Data Analytics Lab

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Registration No.:18PWCSE1652

Section: A

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

Student Signature: _____

Submitted to:

Engr. Mian Ibad Ali Shah

Last date of Submission:

9 January 2022

Department of Computer Systems Engineering
University of Engineering and Technology, Peshawar

OBJECTIVE:

The basic Objective of this lab is:

- To know about Tableau and how to use tableau in data analytics.
- To use Tableau for visualization of data.

TASKS

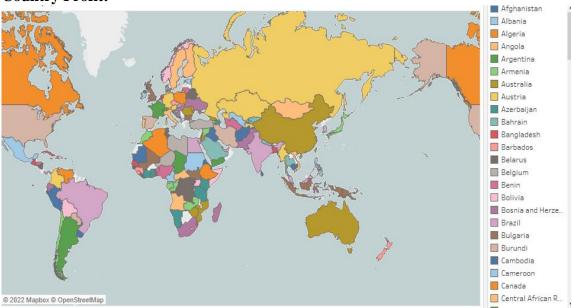
Global Superstore

Country Sales:

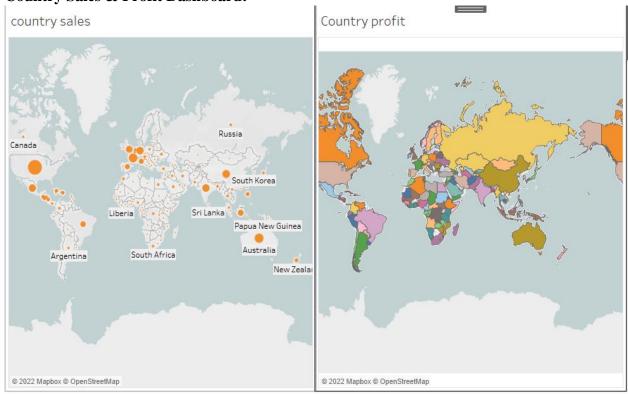
country sales







Country Sales & Profit Dashboard:

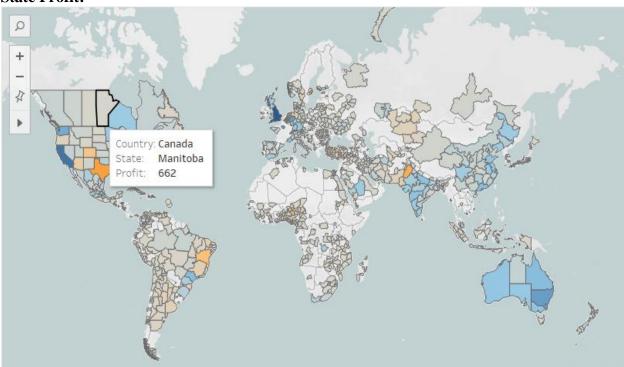


State Sales:

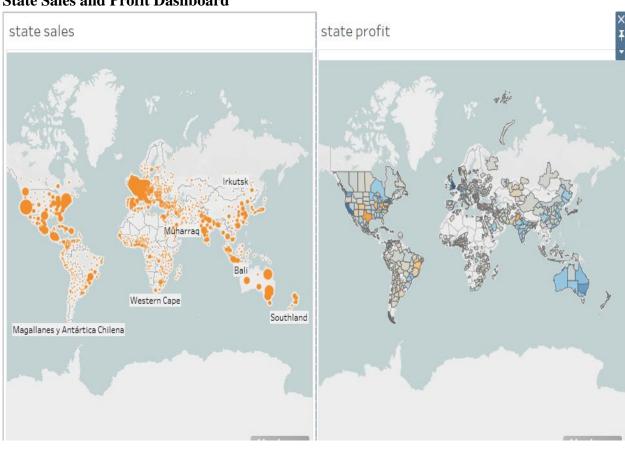
state sales



State Profit:



State Sales and Profit Dashboard

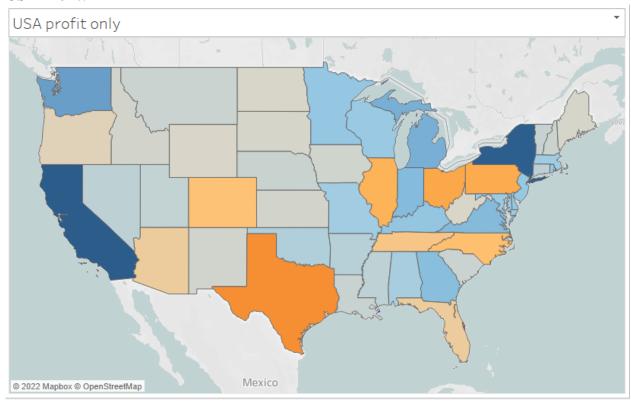


USA Sales:

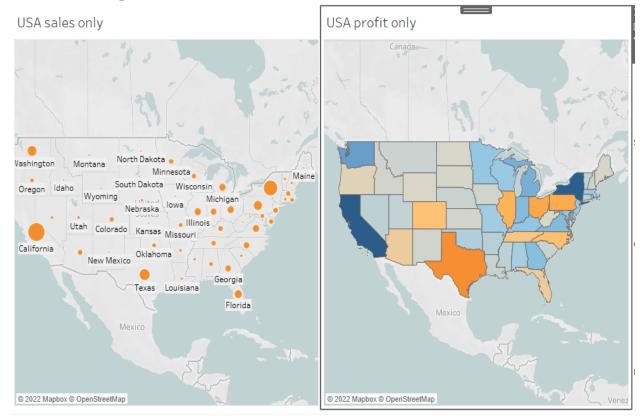
USA sales only



USA Profit:

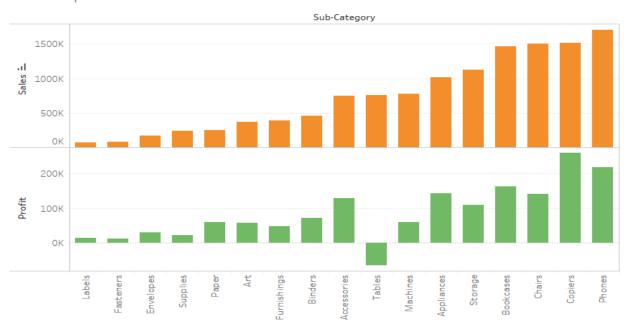


USA Sales and profit Dashboard:

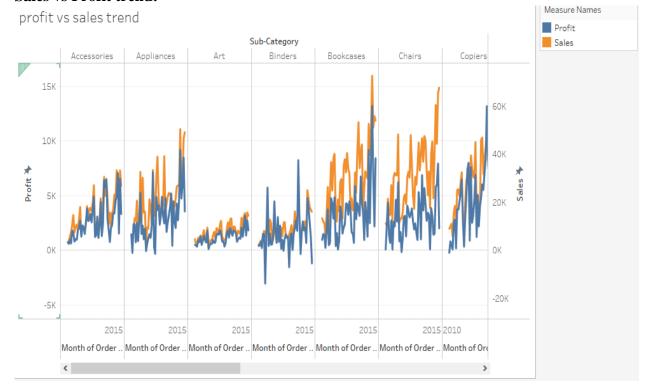


Sales vs Profit:

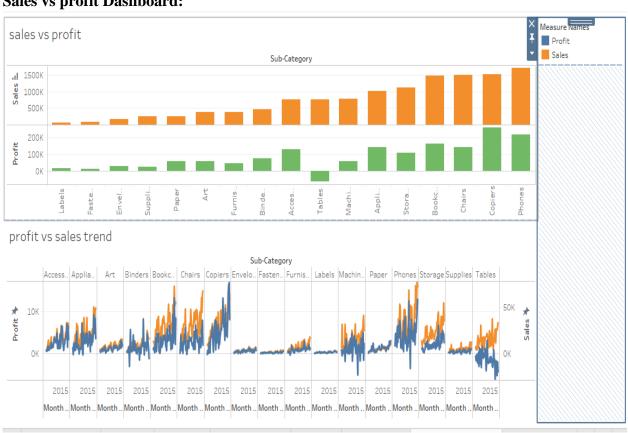
sales vs profit



Sales vs Profit trend:

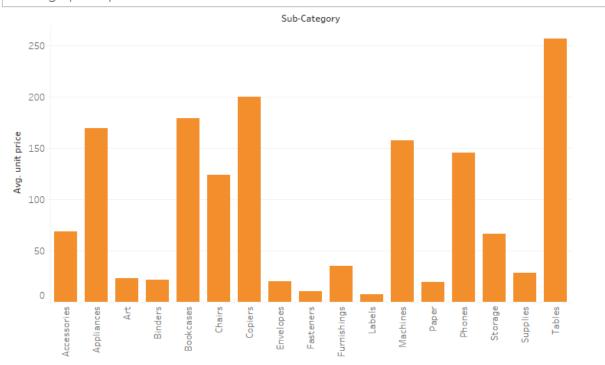


Sales vs profit Dashboard:



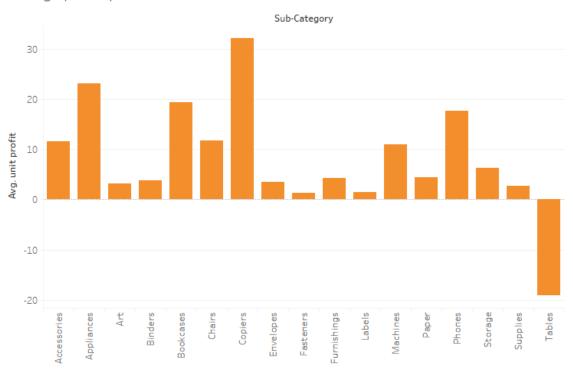
Average Price per unit:

Average price per unit



Average Profit per unit:

Average profit per unit

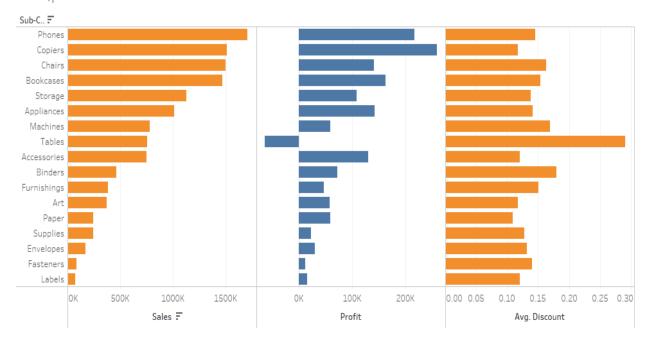


Average Price vs Profit per unit Dashboard:



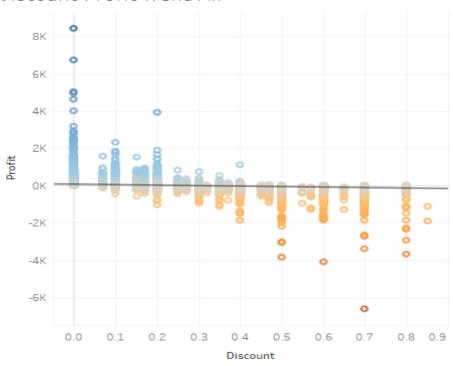
Sales, Profit and Discount:

sales, profit and discount



Discount Profit trend all:

Discount-Profit Trend All



Discount Profit trend table:



Discount Profit Dashboard:



Story:

Company KPI and Improvement Suggestion:

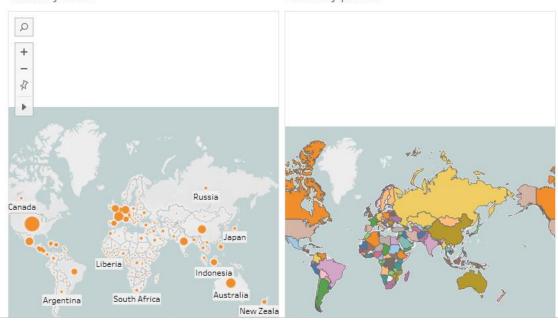
Global superstore dataset country sales and profit Performance in united state

sales and profit in all sub category, we have profit in all sub we got the most loss when the discount is given.

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country sales

Country profit



Global superstore
dataset country sales
and profit

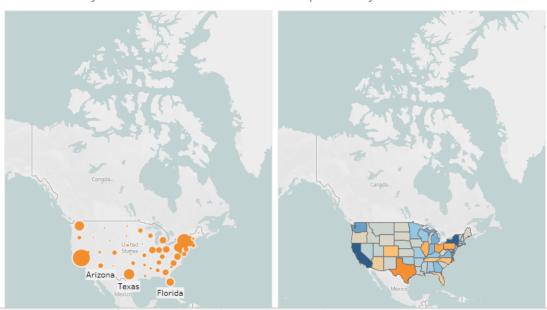
Performance in united state

sales and profit in all sub category. we have profit in all sub we got the most loss when the discount is given.

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USA sales only

USA profit only



Company KPI and Improvement Suggestion

Global superstore dataset country sales Performance in united

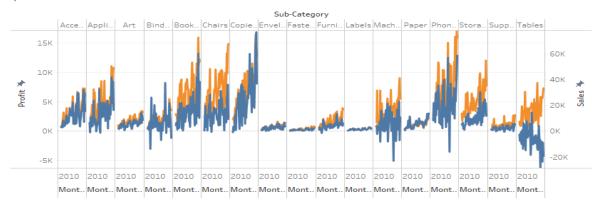
sales and profit in all sub category. we have profit in all sub we got the most loss when the discount is

Measure Names



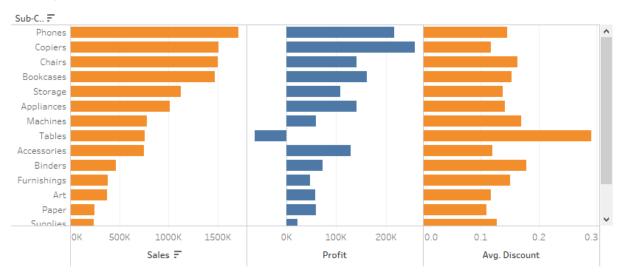


profit vs sales trend

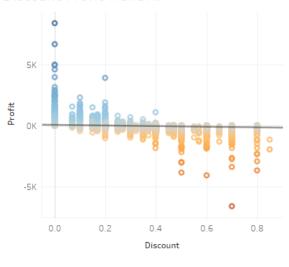


and profit in all sub **aiven**.

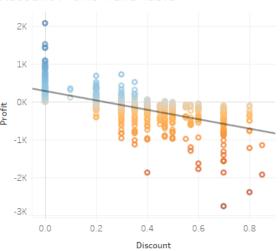
sales, profit and discount



Discount-Profit Trend All



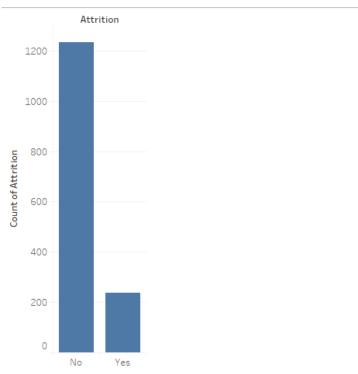
Discount-Profit Trend Table



Employee Attrition Dataset:

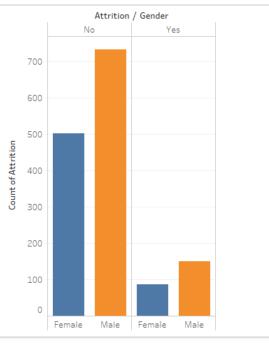
Attrition Rate:

Attrition rate

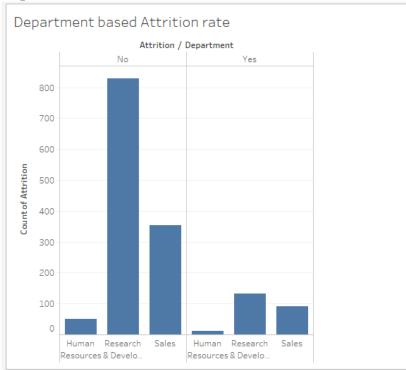


Gender Based Attrition Rate:

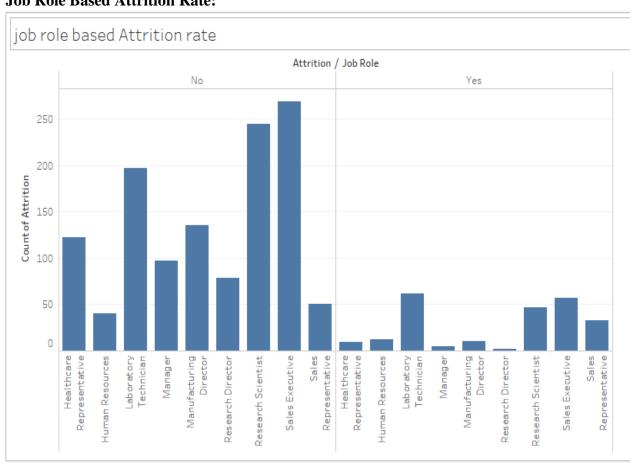
Gender based Attrition rate



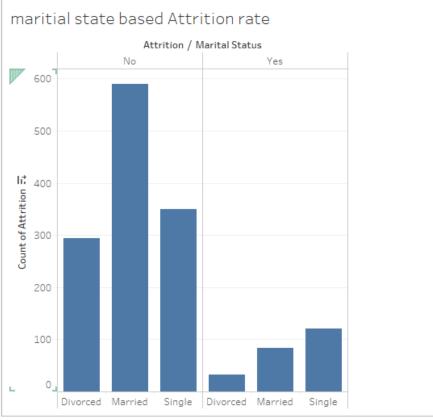
Department Based Attrition Rate:



Job Role Based Attrition Rate:

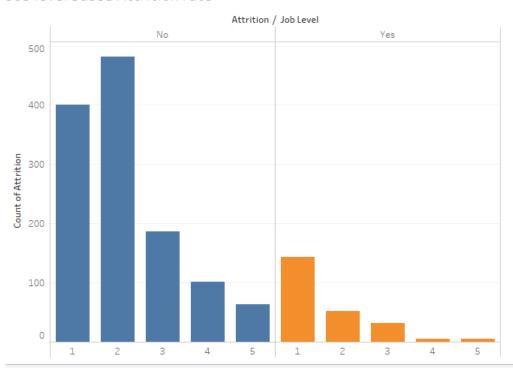


Marital Status Based Attrition Rate:

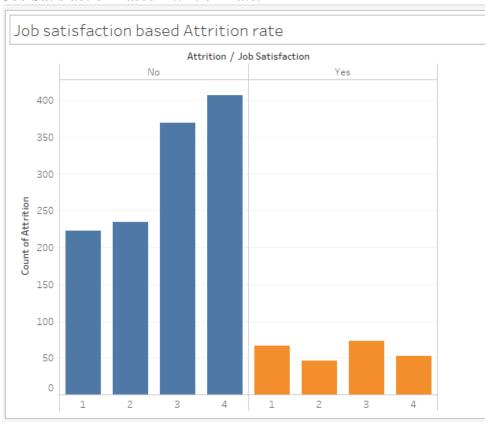


Job Level Based Attrition Rate:

Job level based Attrition rate

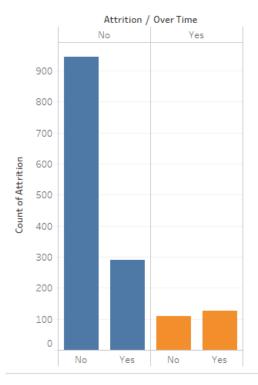


Job Satisfaction Based Attrition Rate:



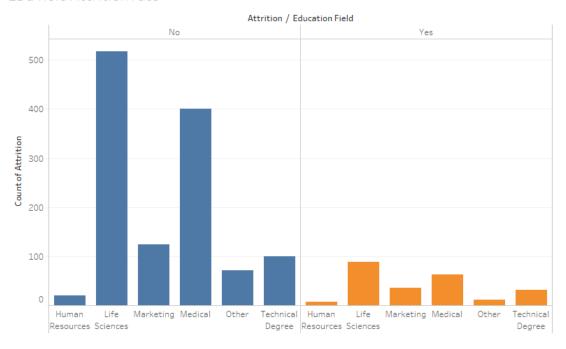
Overtime Based Attrition Rate:

Overtime based Attrition rate



Education Based Attrition Rate:

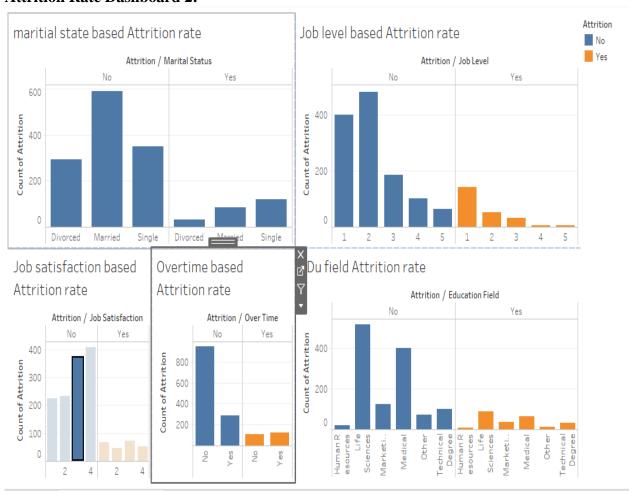
EDu field Attrition rate



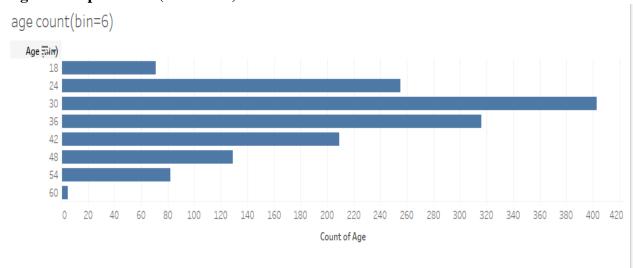
Attrition Rate Dashboard 1:



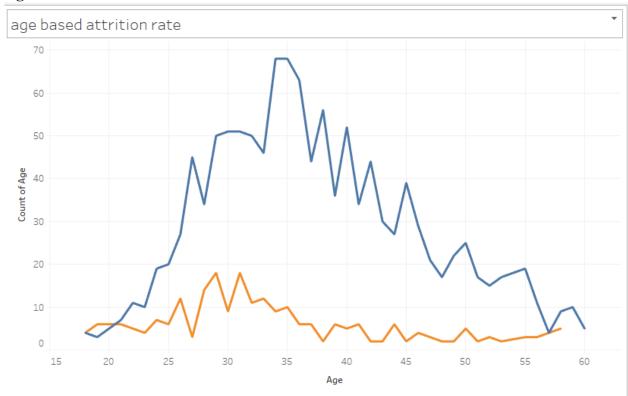
Attrition Rate Dashboard 2:



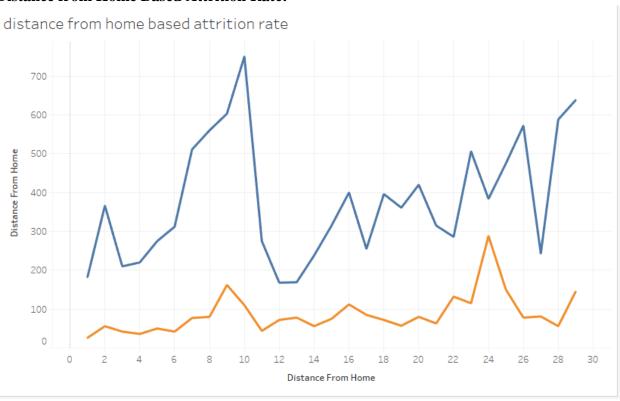
Ages of People in Job (bin size=6):



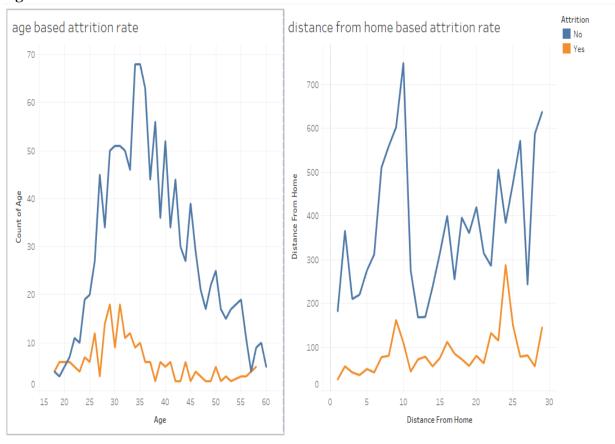
Age Based Attrition Rate:



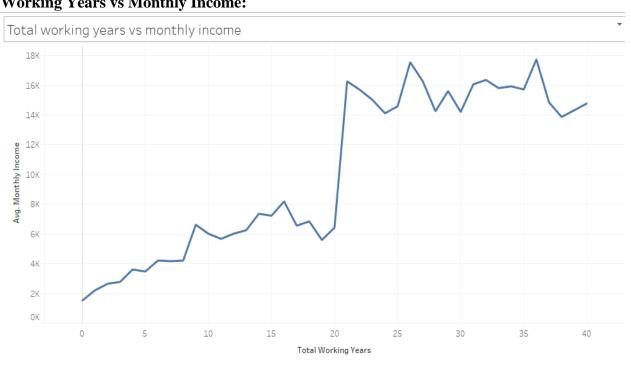
Distance from Home Based Attrition Rate:



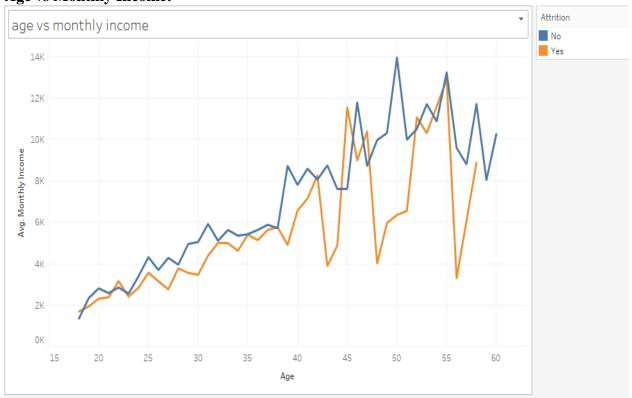
Age & Distance from Home based Attrition Rate Dashboard:



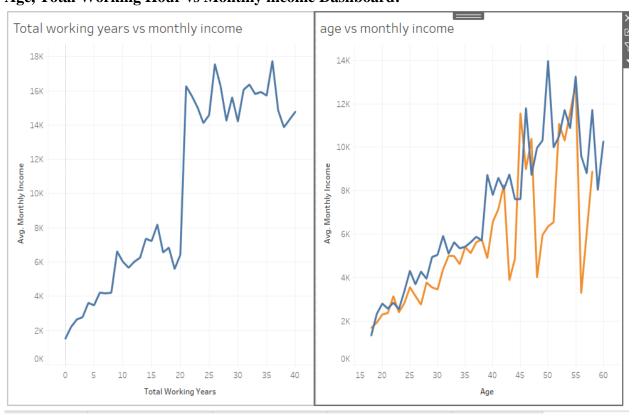
Working Years vs Monthly Income:



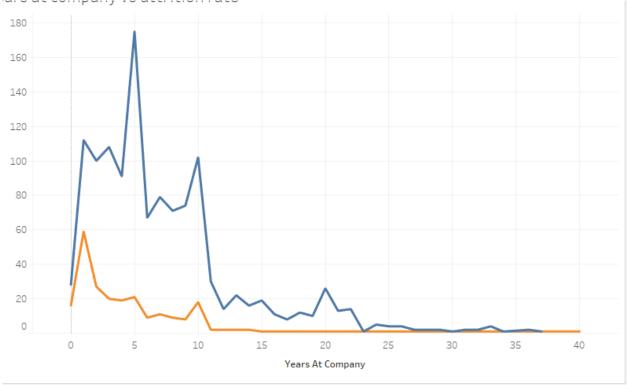
Age vs Monthly Income:



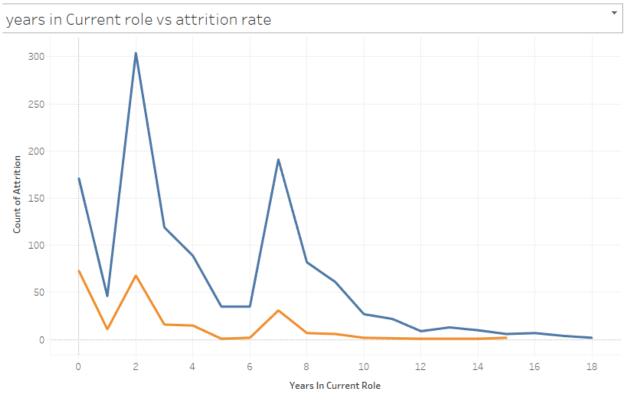
Age, Total Working Hour vs Monthly income Dashboard:



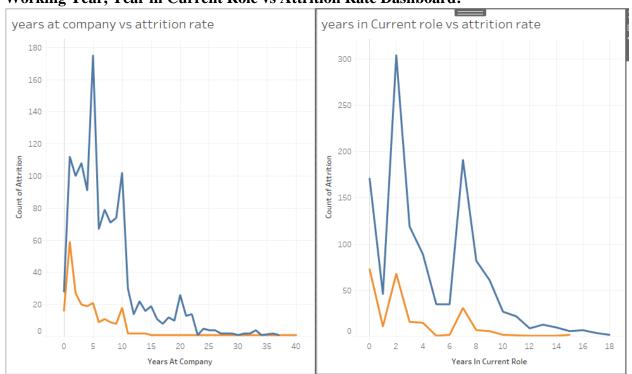
Year at Company vs Attrition Rate:



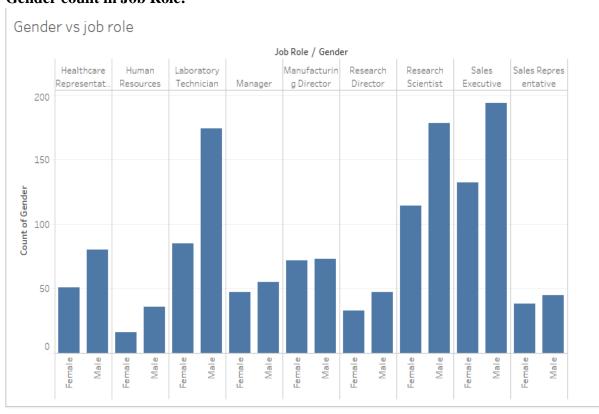
Year in Current Role vs Attrition Rate:



Working Year, Year in Current Role vs Attrition Rate Dashboard:

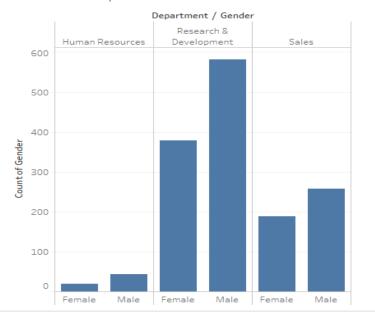


Gender count in Job Role:

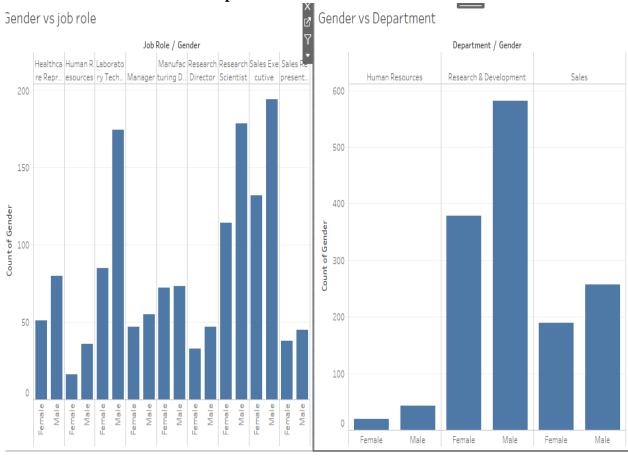


Gender Count In Department:

Gender vs Department



Gender Count in Job Role & Department Dashboard:



Story:

Employee Attrition Story:

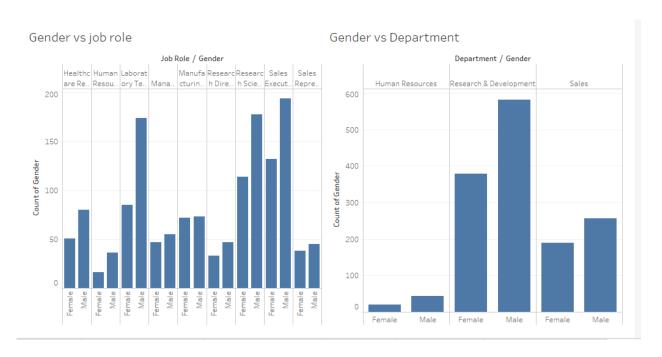
Employee attrition story

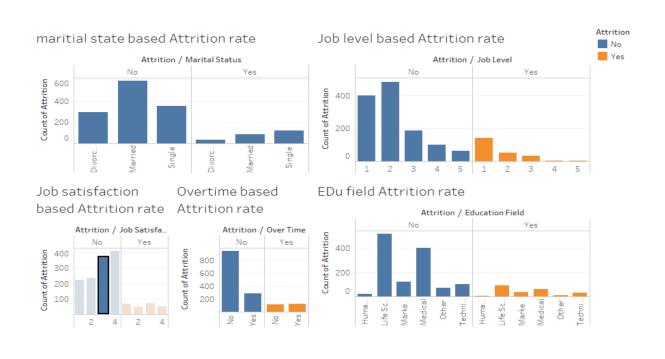
Employee attrition is defined as the natural process by which

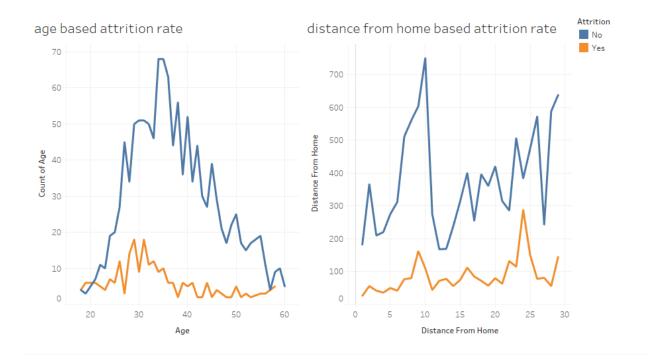
More single people left their job based on the figure it seem and Age based attrition seems normal distribution for both Average month income is increasing based on the total

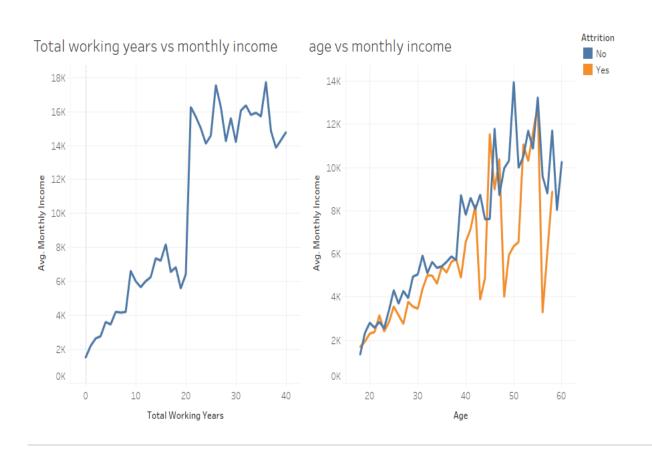
More no of people attrited from the company are those

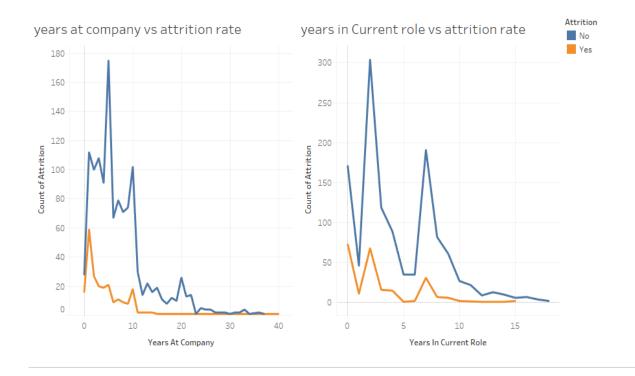
In each department, Male workers are in more no than the

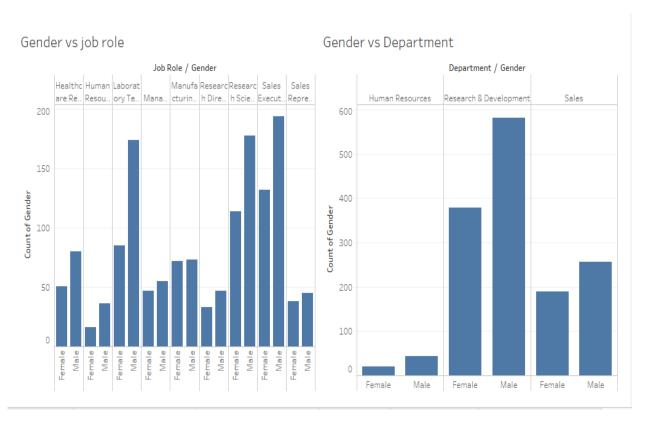












Analysis:

The analysis of both the task is in the Tableau Workbook. I have written story for both after analyzing and visualizing the whole dataset. For the Global Superstore dataset, I have followed the manual (slides) and analyze it accordingly. For the second task which is employee attrition dataset, I have tried to analyze it based on different dimension and in the story portion I have written all the analysis detail that I have analyzed from the dataset.

Link to my Public Tableau:

 $\frac{https://public.tableau.com/app/profile/ayaz.mehmood/viz/globalsuperstoredatasetvisualized by AyazMehmood/CompanyKPI and Improvement Suggestion \\$

Global Superstore Dataset

 $\frac{https://public.tableau.com/app/profile/ayaz.mehmood/viz/EmployeeAttritiondatasetanalyzedby A}{yazMehmood/Employeeattritionstory}$

Employee Attrition Dataset