**Bank Transactions Project Documentation**

**Description**

I have developed a comprehensive Power Bi dashboard , with detailed visualizations and insights on the bank transactions performance by location.

**Background**

The dataset provided include the following columns

* Customer demographics: Customer age, Occupation, Location
* Transaction details: login attempts, transaction attempts , transaction type , channel

The dataset serves to provide information on customer demographics, and transaction details to gain more insights and provide informative visualization for the bank to make data driven strategies.

**Objectives**

In this project, I will perform data cleaning using excel and do the visualizations using powerBI. Also, to bring out the insights on the performance by each segment and the most groups doing the transactions , the challenges they are facing and some recommendations.

**Data Cleaning(Excel)**

1. The dataset had no duplicates and blanks making it more accurate for analysis.
2. I have changed the column name “Location” to “City”
3. I have added the “Sec” to “Transaction Duration” column for easy interpretation .

**KPI’s Requirements**

1. Transaction amount
2. Account balance
3. Login attempts
4. Location

**Charts Requirements**

Chart type : Card(New)

* Total transaction amount
* Objective: to see the total amount of money transacted per each city by each segment.

Chart type : Card(New)

* Account Balance
* Objective: to see the total amount of money left after a person has done his or her transaction to determine if this can influence their next transaction.

Chart type : Stacked bar chart

* Total login attempts by occupation
* Objective: comparison among occupations to determine the one with most attempts

Chart type : Pie Chart

* Customer per city
* Objective : To determine the city with the most customers and their occupations.

Chart type : Table

* City, customers per city and duration in seconds for their transactions.
* Objective : To visualize the city with the most customers and their total time they took to finish their transactions.

Chart type : Map

* City and IP Address
* Objective : To actually see the exact cities with the most transactions and the location of the customers using IP Address.

Chart type : Slicers

* Occupation , transaction type , city and channel.
* Objective : To enhance the searching .