**Powerbi project**

**Project name** :Banking system Data analysis

**Name** :Mohammed Haroon Rasheed

**Batch**: 10am – 12pm

**Trainer**: Selva

**Project overview**

This project aims to analyze the performance and health of a bank using various data sets including customer details, loan details, transaction details, and branch details. By analyzing these datasets, the project seeks to identify trends, patterns, and potential areas for improvement within the bank’s operations.

**About the dataset**

**Account data**

* **Account id –** It contains a foreign keys for specific account.
* **Customer id –** It contains a foreign keys for specific customer.
* **Branch id –** It contains a foreign keys for specific branch.
* **Account opening balance –** It represents the amount of initial balance.
* **Account opening date –** It represents the time period of the opening date.
* **Account type –** It contains of three account types checking , fixed deposit and savings.
* **Account status –** It contains of three types of account status active, closed and pending.

**Branch data**

* **Branch id –** It represents as a primary key and contains the branch name and state data.
* **Branch name –** It contains the branch name in alphanumeric 7 character.
* **Branch state –** It contains the data of each state that represent the branch.

**Customer data**

* **Customer id –** It represents as a primary key for the customer information as first name, last name, city, phone number, occupation, DOB.
* **First name –** It contains the customer first name.
* **Last name –** It contains the customer last name.
* **City –** It contains the customer city.
* **Phone number –** It contains the customer contact number.
* **Occupation –** It contains the customer what profession he/she is working.
* **DOB –** It contains the customer data of birth.

**Loan data**

* **Loan id –** It act as primary key and get to know about the data by loan amount, customer id, branch id.
* **Customer id –** It act as a foreign key and get to know about the customer.
* **Branch id –** It act as a foreign key and get to know about the branch.
* **Loan amount –** It has the data of the loan amount segregated by the loan id , branch id and customer id.

**Transaction data**

* **Transaction id –** It acts as a primary key and get to know about transaction date, media, type and amount.
* **Account id –** It acts as a foreign key to connect with the primary key.
* **Transaction date –** It contains the transaction date, year and month.
* **Transaction media -** It has four transaction media as cash, check, credit card and debit card.
* **Transaction type –** It has four transaction type as deposit, purchase, transfer and withdrawal.
* **Transaction amount –** It contains the transaction amount.

**Visualization used**

**Card**

* Added d to define about no of customer, maximum transaction amount, total loan /transaction amount and average loan

**Pie chart**

* Added to type of account type by account opening balance.

**Doughnut chart**

* Added to the transaction amount by Transaction type and transaction amount by year.

**Bar chart**

* Added to highlights the transaction amount per year.

**Navigator button**

* Added for the quick switch over from one page to another.

**Table**

* Added to show the top 1 to 15 state by the transaction amount

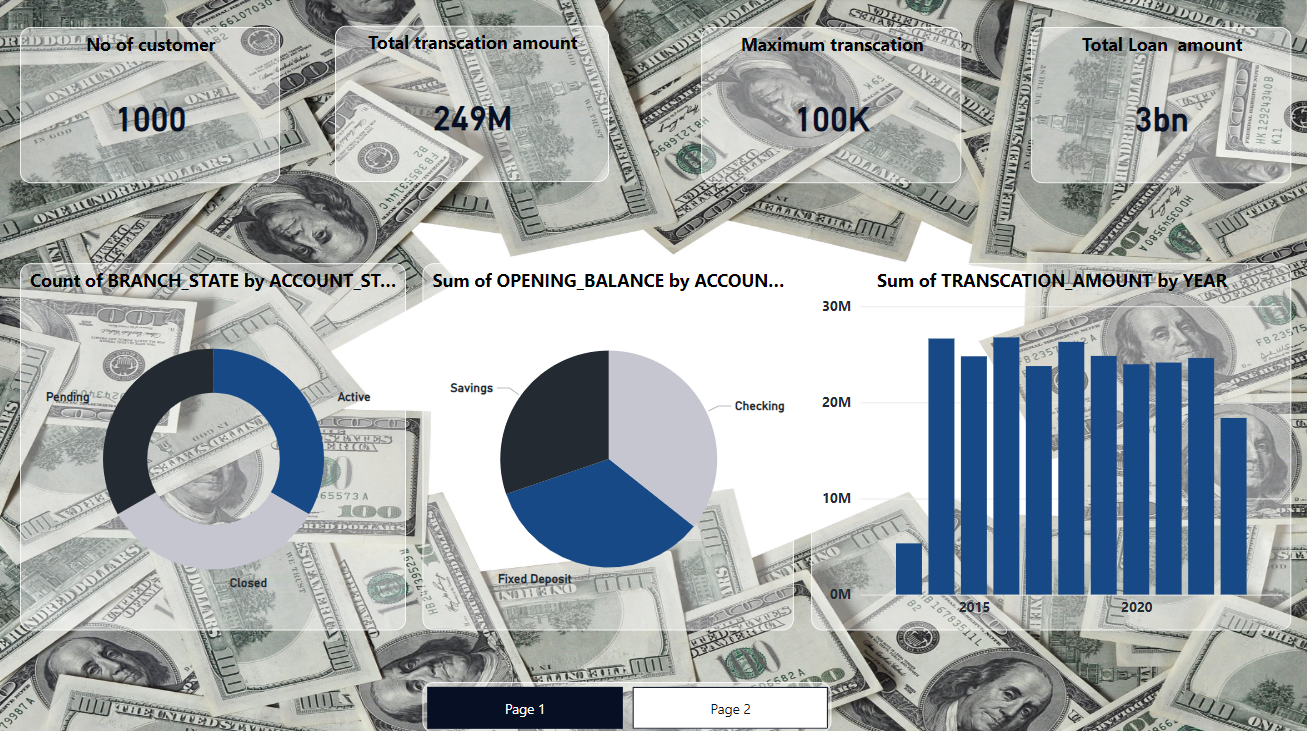
**Matrix**

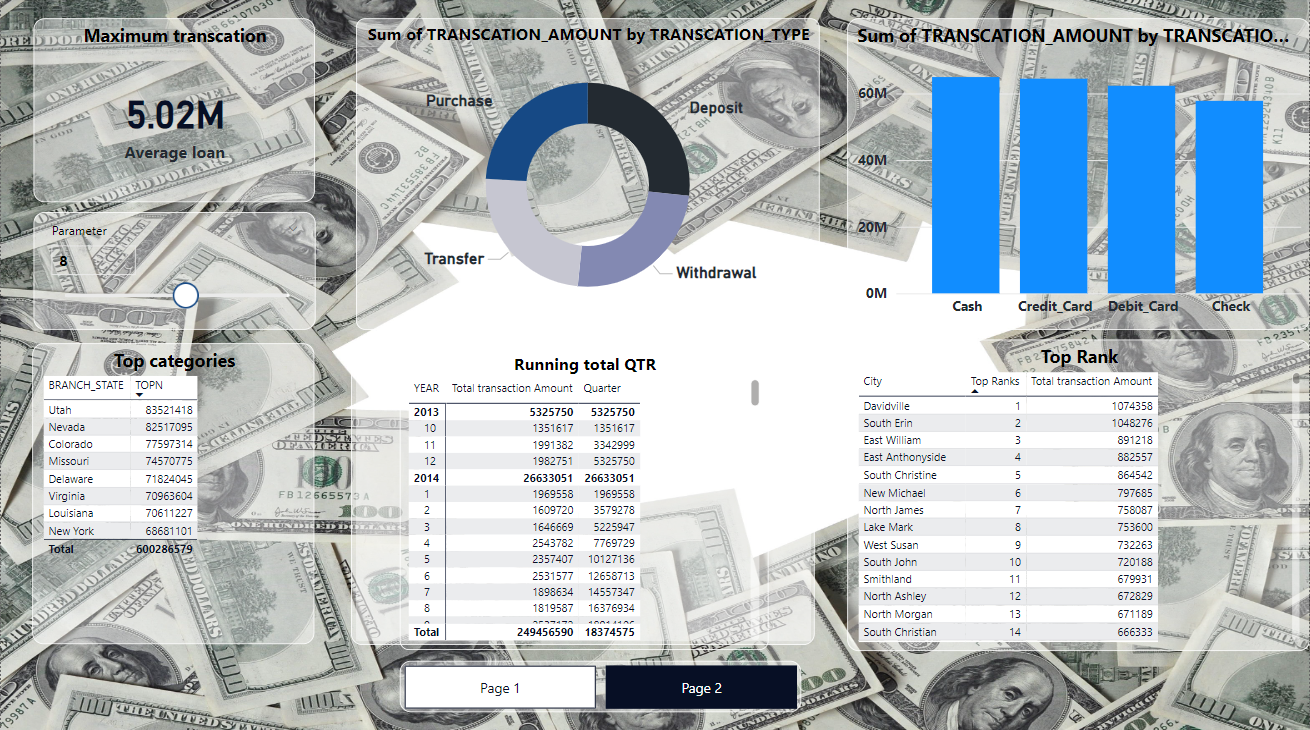
* Added to show transaction amount per year and month using hierarchy.

**Slicer**

* Added range slicer to visualize the top 1 to 15 to know about highest transaction state.

**Analysis report**

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