Bank Customer Churn Analysis

Objective:

The objective of this analysis is to discover various factors contributing to increased customer churn rate at the bank, and provide the business users with these insights which they can use to make informed decisions and strategize on how to improve customer retention and reduce churn rate.

1) Total Customers Of Bank

```
SELECT count(*) AS Total_Customers
FROM Churn_modelling;
```

Total Customers

10K

2) Total Active Customers

```
SELECT COUNT(*) AS Active_Customers
FROM churn_modelling
WHERE Activity_Status = "Active";
```

Active Customers

5151

3) Total Inactive customers

```
SELECT COUNT(*) AS Inactive_Customers
FROM churn_modelling
WHERE Activity_Status = "Inactive";
```

Inactive Customers

4849

4) Total credit card owned customers

```
SELECT COUNT(*) AS Credit_Card_Holders
FROM churn_modelling
WHERE Credit_Card_Status = "Owned";
```

Credit Card owned

7055

5) Total Non credit card owned customer

```
SELECT COUNT(*) AS Non_Credit_Card_Holders
FROM churn_modelling
WHERE Credit_Card_Status = "Not Owned";
```

Non Credit Card Owned Customer

2945

6) Total Churn Customers

```
SELECT COUNT(*) AS Churn_Customers
FROM churn_modelling
WHERE Exit_Status = "Exited";
```

Churn Customers

2037

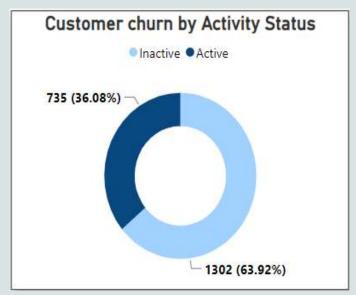
7)The overall churn rate of bank's customers

```
SELECT
    COUNT(*) AS TotalCustomers,
    SUM(CASE WHEN Exit_Status = 'Exited' THEN 1 ELSE 0 END) AS ChurnedCustomers,
    concat(Round((SUM(CASE WHEN Exit_Status = 'Exited' THEN 1 ELSE 0 END) / COUNT(*)) * 100,2),"%") AS Churn_Rate
FROM
    churn_modelling;
```

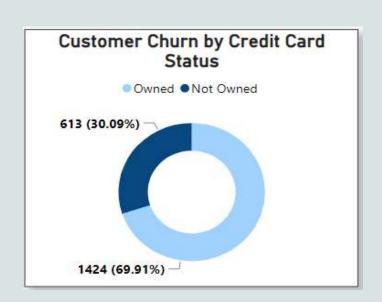
Customers churn Rate

20.37%

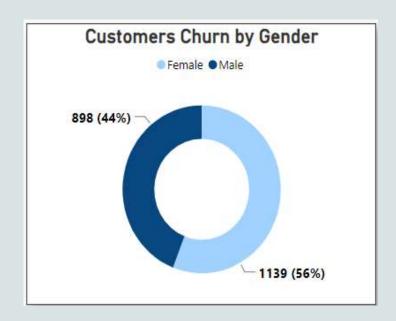
8) Customer churn with respect to whether the customer is an active member or not



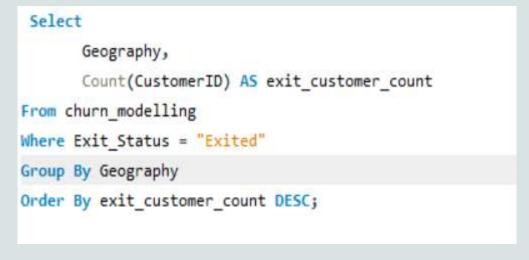
9) Customer churn with respect to credit score status

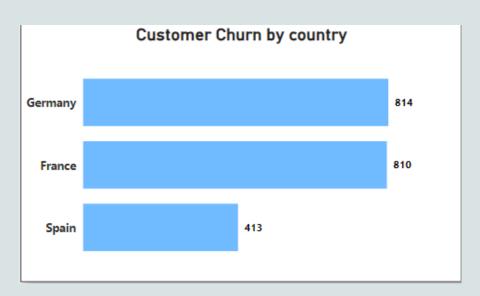


10) Customer churn with respect to Gender



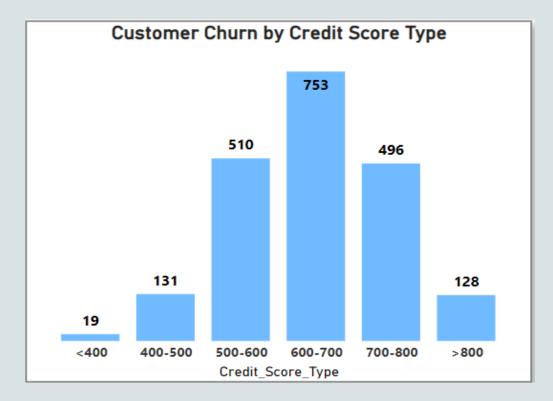
11) Customer churn with respect to country





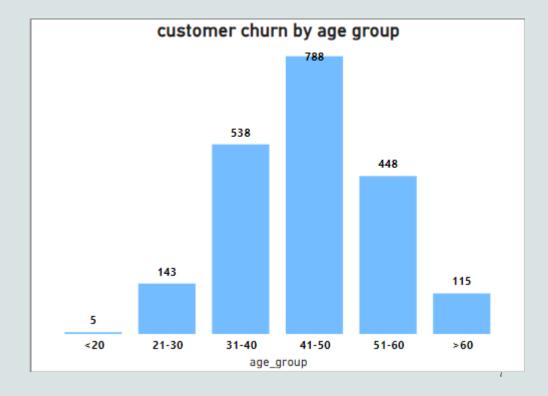
12) Customer Churn With respect to credit score type

```
Select
      case
          when creditScore >= 800 Then ">800"
          when creditScore < 800 And creditScore >=700 then "700-800"
          when creditScore < 700 and creditScore >=600 then "600-700"
          when creditScore < 600 and creditScore >=500 Then "500-600"
          when creditScore < 500 and creditScore >=400 then "400-500"
          Else "<400"
          End AS Credit_Score_Type,
          Count(customerID) AS Exited customer count
From churn modelling
Where exit status = "Exited"
Group By Credit_Score_Type
Order By Exited customer count DESC;
```



13) customer churn with respect to age group

```
Select
       CASE
            WHEN age <=20 Then "<20"
            WHEN age >= 21 AND age <= 30 THEN '21-30'
            WHEN age >= 31 AND age <= 40 THEN '31-40'
            WHEN age >= 41 AND age <= 50 THEN '41-50'
            WHEN age >= 51 AND age <= 60 THEN '51-60'
            ELSE '>60'
       END AS age_group,
       Count(customerID) AS Exit_customer_count
From churn_modelling
where Exit Status = "Exited"
Group by Age_group
Order by Exit_customer_count DESC;
```



14) Customer churn with respect to account balance

```
Case

when balance >= 0 And balance < 50000 Then "0 - 50K"

when balance >= 50000 And balance < 100000 Then "50K - 1L"

when balance >= 100000 And balance < 150000 Then "1L - 1.5L"

When balance >=150000 And balance < 200000 Then "1.5L - 2L"

Else ">2L"

End AS Balance_group,

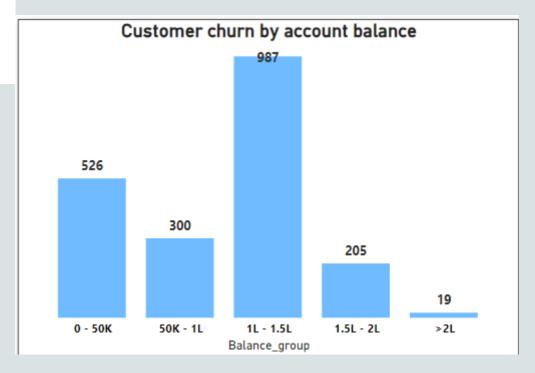
count(customerID) As Exited_customer_count

From churn_modelling

where Exit_status = "Exited"

Group by balance_group

ORDER By Exited_customer_count DESC;
```



15) Customer churn with respect to Number of products

```
Select
     NumOfProducts,
     count(customerID) AS Exit_customer_count
From Churn_modelling
Where Exit_status = "Exited"
Group By NumOfProducts
Order by Exit_customer_count Desc;
```

16) Customer churn with respect to Tenure

```
Tenure,

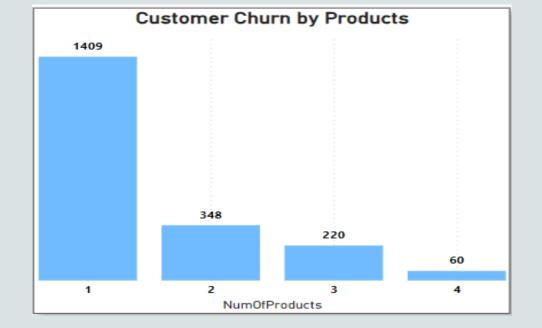
Count(customerID) AS Exit_customer_count

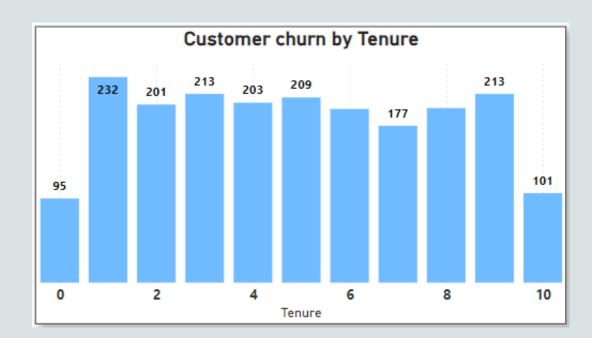
From churn_modelling

Where Exit_status = "Exited"

Group By Tenure

Order by Exit_Customer_count DESC;
```







Thank you