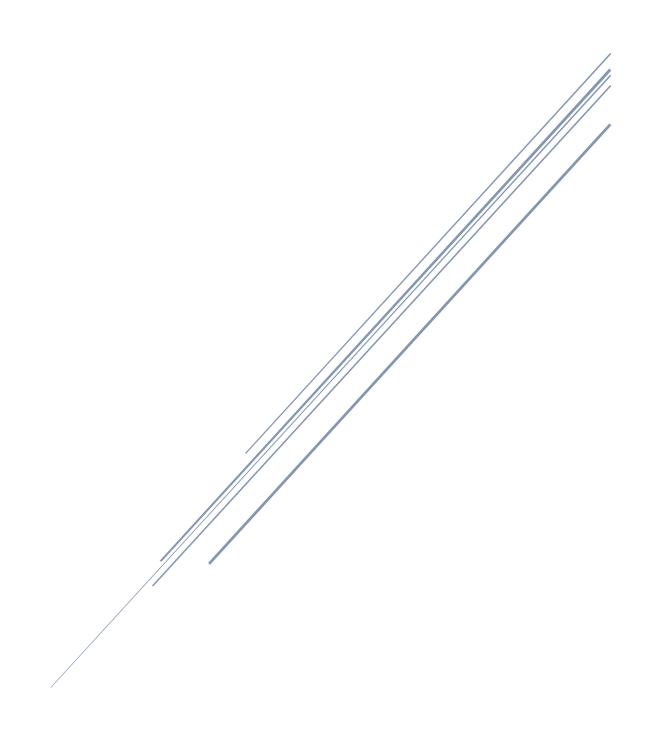
CHURN ANALYSIS

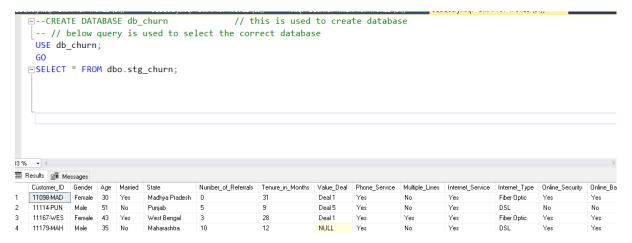


Churn Analysis:

Step 1: Loading the Data

The first step in churn analysis is to load data from the source file. For this, we used **Microsoft SQL Server**, a widely adopted industry solution that ensures efficient data handling, scalability, and seamless integration with Power BI for visualization.

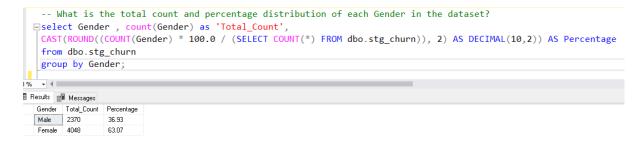
Welcoming to the data:



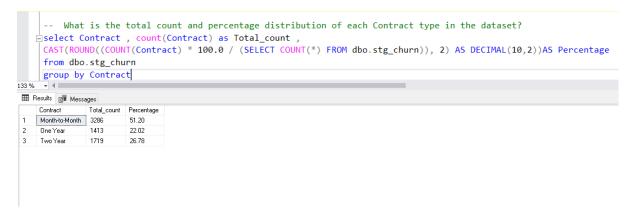
Data Exploration:

Question 1:

What Is the total count and percentage distribution of each Gender in dataset?

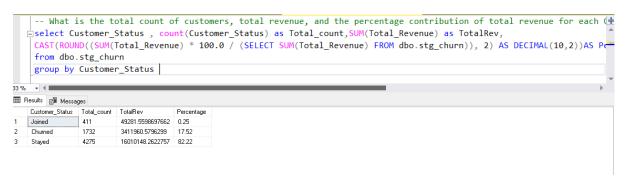


Question 2: What is total count and percentage distribution of each Contract Type in Dataset?



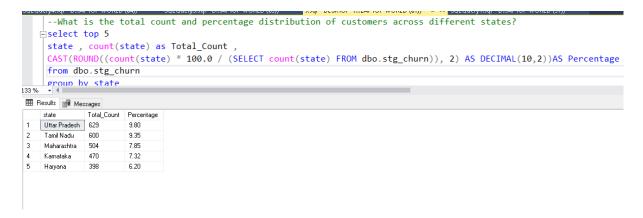
Question3:

What Is total count of customers, total revenue and percentage contribution of total revenue for each Customer status?



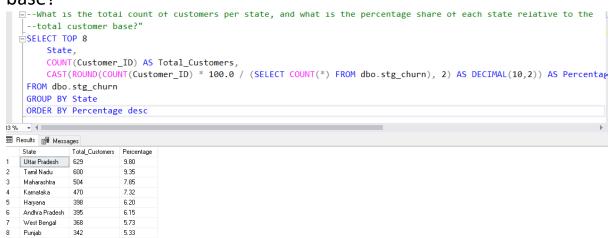
Question 4:

What is Total count and percentage distribution of customer across Different States?



Question5:

What is the total number of customers for each state along with the percentage contribution of each state to the overall customer base?



Question 6:

```
--What is the average age of customers grouped by their Customer_Status?

select Customer_Status , avg(age) as Average_Age
from dbo.stg_churn
group by Customer_Status

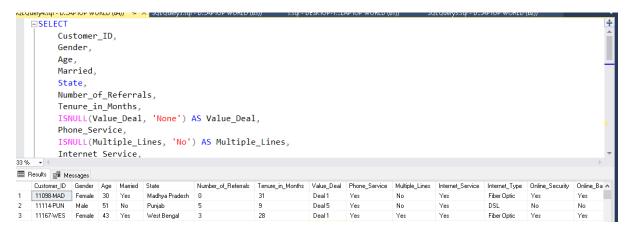
Results Messages

Customer_Status Average_Age
1 Joined 43
2 Churned 50
3 Stayed 46
```

Question7:

Data Handling:

Solution all missing values gone:

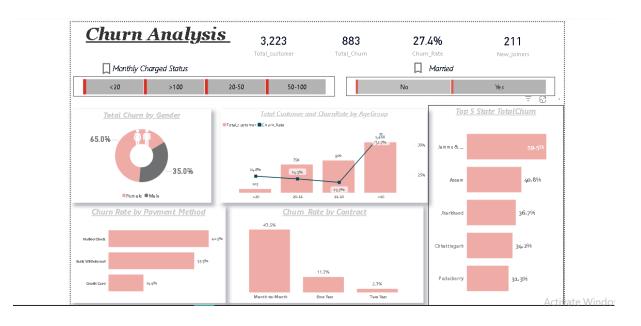


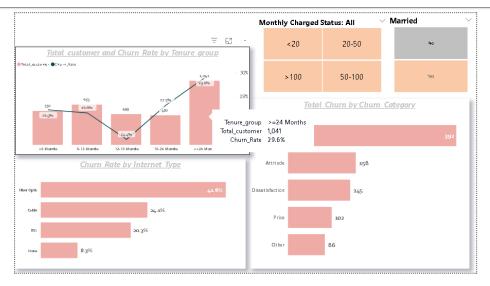
View:

```
create view vw_churn_data as select * from dbo.prod_churn where Customer_Status in ('Churned' , 'Stayed')

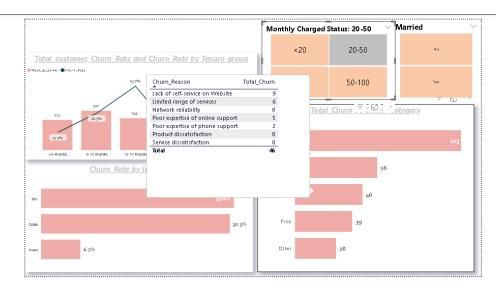
create view vw_join_data as select * from dbo.prod_churn where Customer_Status = 'Joined'
```

Power bi Analysis





Activate Windo



Activata Window

Key Insights:

1. Age Group Impact:

- 50+ age group has the highest total customers (2,838), making up 44.22% of the total customer base.
- It is 2,325.64% higher than the <20 age group (117 customers).

Female customers aged 50+ have the highest churn rate (31.5%).

• A targeted marketing campaign focusing on this segment could help retain these customers.

•

2 Gender-Based Churn:

• Females (1,111 churned) have a higher churn rate than males (621 churned), indicating a potential need for gender-specific retention strategies.

3 Payment Method Impact on Churn:

- Credit Card users have the lowest churn rate (14.8%), while:
 - o Mailed Check users have the highest churn (37.8%)
 - o Bank Withdrawal users follow at 34.4%
- Digital payment users are more stable, while traditional payment users churn more.

4. State:

The state having highest churn rate is jumma and Kashmir

5. Contract:

It shows that Gender female, male have 3 type of contract in which those people having month to month churn more

6. Internet Type & Churn

Fiber optic users have the highest churn rate (41.9%), likely due to pricing or service quality concerns.