



DATA ANALYST PROJECT
Excel + SQL + Power BI

GITHUB Repository:

<https://github.com/AHK-999/Uber-Data-Analyst-Project-SQL-Excel-Power-BI>

Power BI Dashboard:

<https://app.powerbi.com/view?r=eyJrIjoiOGUyNjRhYTUtMzUwNS00N2I3LTk0ODUtYWQwNjI1ZmU5NzhliiwidCI6ImUxNGU3M2ViLTUyNTEtNDM4OC04ZDY3LTNmOWYyZTJkNWE0NiIsImMiOiJlEwfQ%3D%3D>

SQL Questions:

1. Retrieve all successful bookings:
2. Find the average ride distance for each vehicle type:
3. Get the total number of cancelled rides by customers:
4. List the top 5 customers who booked the highest number of rides:
5. Get the number of rides cancelled by drivers due to personal and car-related issues:
6. Find the maximum and minimum driver ratings for Prime Sedan bookings:
7. Retrieve all rides where payment was made using UPI:
8. Find the average customer rating per vehicle type:
9. Calculate the total booking value of rides completed successfully:
10. List all incomplete rides along with the reason:

Power BI Questions:

1. Ride Volume Over Time
2. Booking Status Breakdown
3. Top 5 Vehicle Types by Ride Distance
4. Average Customer Ratings by Vehicle Type
5. cancelled Rides Reasons
6. Revenue by Payment Method
7. Top 5 Customers by Total Booking Value
8. Ride Distance Distribution Per Day
9. Driver Ratings Distribution
10. Customer vs. Driver Ratings

SQL Answers Queries:

```
DROP TABLE IF EXISTS uber_table;
```

```
CREATE TABLE uber_table (  
    Date DATE,  
    Time TIME,  
    Booking_ID VARCHAR(50),  
    Booking_Status VARCHAR(50),  
    Customer_ID VARCHAR(50),  
    Vehicle_Type VARCHAR(50),  
    Pickup_Location VARCHAR(50),  
    Drop_Location VARCHAR(50),  
    V_TAT INT,  
    C_TAT INT,  
    Canceled_Rides_by_Customer VARCHAR(150),  
    Canceled_Rides_by_Driver VARCHAR(150),  
    Incomplete_Rides VARCHAR(50),  
    Incomplete_Rides_Reason VARCHAR(150),  
    Booking_Value INT,  
    Payment_Method VARCHAR(50),  
    Ride_Distance INT,  
    Driver_Ratings FLOAT,  
    Customer_Rating FLOAT  
);
```

```
SELECT * FROM uber_table LIMIT 10;
```

#1) Retrieve all successfull bookings

```
CREATE VIEW Successfull_Booking AS  
SELECT * FROM uber_table  
WHERE Booking_Status = 'Success';
```

```
--1) Retrieve all successfull bookings  
SELECT * FROM Successfull_Booking;
```

#2) Find average ride distance for each vehicle type

```
CREATE VIEW avg_ride_distance_for_each_vehicle AS  
SELECT Vehicle_Type, ROUND(AVG(Ride_Distance),2) AS avg_ride_distance  
FROM uber_table  
GROUP BY Vehicle_Type  
ORDER BY avg_ride_distance DESC;
```

```
#2) Find average ride distance for each vehicle type  
SELECT * FROM avg_ride_distance_for_each_vehicle;
```

#3) Get the total number of cancelled rides by customers.

```
CREATE VIEW Number_Of_Cancelled_Rides AS  
SELECT COUNT(Booking_ID) as total_no_cancelled_rides  
FROM uber_table  
WHERE Booking_Status = 'Canceled by Customer';
```

--3) Get the total number of cancelled rides by customers.
SELECT * FROM Number_Of_Cancelled_Rides ;

#4) List the top 5 customers who booked the highest number of rides

```
CREATE VIEW Top_5_Customers AS
SELECT Customer_ID,COUNT(Booking_ID) AS ride_bookings
FROM uber_table
GROUP BY Customer_ID
ORDER BY ride_bookings DESC
LIMIT 5;
```

--4) List the top 5 customers who booked the highest number of rides
SELECT * FROM Top_5_Customers;

#5) Get the number of rides canceled by drivers due to personal and car-related issues:

```
CREATE VIEW cancelled_rides_by_drivers_P_C_issues AS
SELECT COUNT(Booking_ID) AS cancelled_rides_drivers FROM uber_table
WHERE Canceled_Rides_by_Driver = 'Personal & Car related issue';
```

-- 5) Get the number of rides canceled by drivers due to personal and car-related issues:
SELECT * FROM cancelled_rides_by_drivers_P_C_issues;

#6) Find the maximum and minimum driver ratings for prime sedan bookings

```
CREATE VIEW Max_Min_Driver_Ratings_For_Prime_Sedan AS
SELECT Vehicle_Type,MAX(Driver_Ratings) AS
maximum_rating,MIN(Driver_Ratings) AS minimum_rating
FROM uber_table
WHERE Vehicle_Type = 'Prime Sedan'
GROUP BY Vehicle_Type;
```

-- 6) Find the maximum and minimum driver ratings for prime sedan bookings
SELECT * FROM Max_Min_Driver_Ratings_For_Prime_Sedan;

#7) Retrieve all rides where payment was made using UPI

```
CREATE VIEW UPI_Payments AS
SELECT * FROM uber_table
WHERE Payment_Method= 'UPI'
```

-- 7) Retrieve all rides where payment was made using UPI
SELECT * FROM UPI_payments;

#8) Find the average customer rating per vehicle type:

```
CREATE VIEW Avg_Customer_Rating_Per_Vehicle_Type AS
```

```
SELECT Vehicle_Type, ROUND(AVG(Customer_Rating)::NUMERIC,2) AS
avg_customer_rating
FROM uber_table
GROUP BY Vehicle_Type;
```

--8) Find the average customer rating per vehicle type:
SELECT * FROM Avg_Customer_Rating_Per_Vehicle_Type;

#9) Calculate the total booking value of rides completed successfully

```
CREATE VIEW total_successful_ride_value AS
SELECT SUM(Booking_Value) AS total_booking_value
FROM uber_table
WHERE Booking_Status = 'Success';
```

--9) Calculate the total booking value of rides completed successfully
SELECT * FROM total_successful_ride_value;

#10) List all incomplete rides along with the reason

```
CREATE VIEW Incomplete_rides_With_reasons AS
SELECT Booking_ID, Incomplete_Rides, Incomplete_Rides_Reason
FROM uber_table
WHERE Incomplete_Rides = 'Yes';
```

--10) List all incomplete rides along with the reason
SELECT * FROM Incomplete_rides_With_reasons;

Power BI Dashboard Preview:

Segregation of the views:

1. Overall

- Ride Volume Over Time
- Booking Status Breakdown

2. Vehicle Type

- Top 5 Vehicle Types by Ride Distance

3. Revenue

- Revenue by Payment Method
- Top 5 Customers by Total Booking Value
- Ride Distance Distribution Per Day

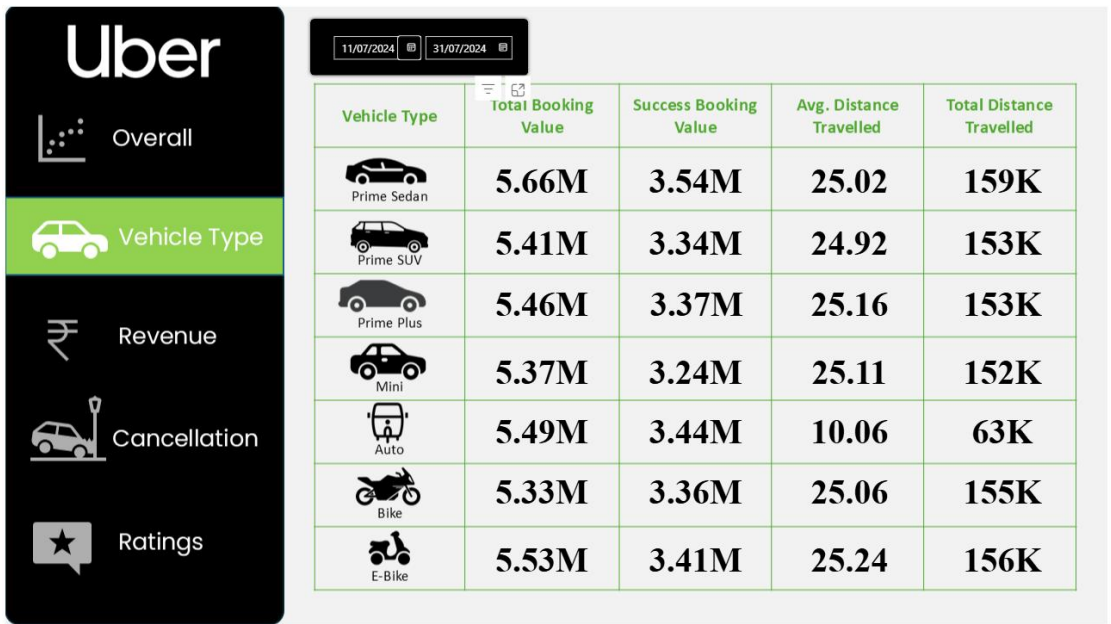
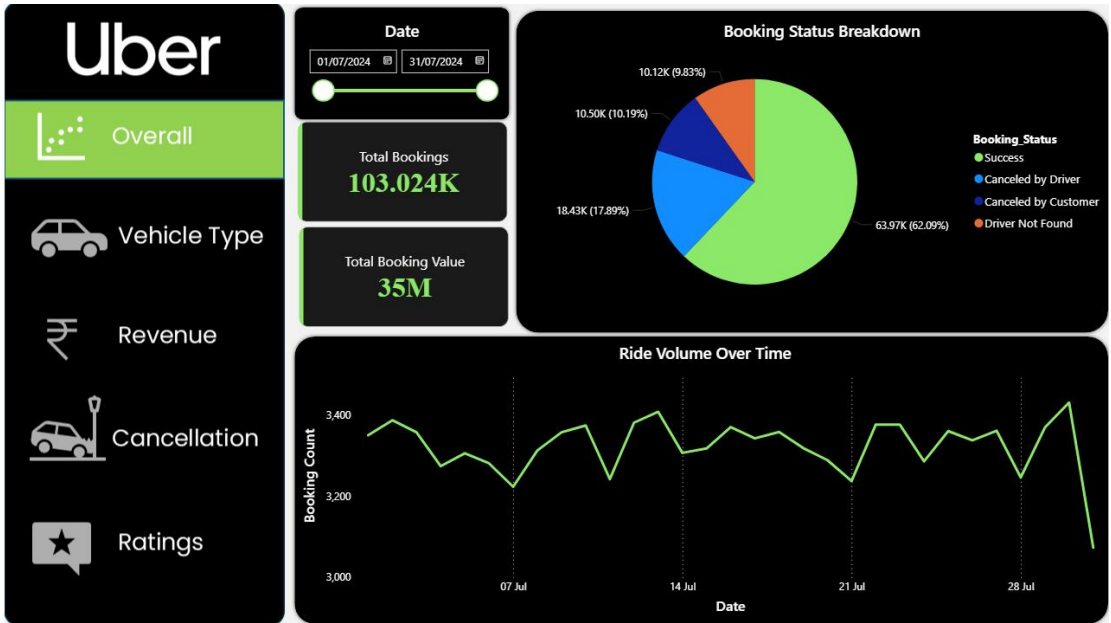
4. Cancellation

- Cancelled Rides Reasons (Customer)
- cancelled Rides Reasons(Drivers)

5. Ratings

- Driver Ratings
- Customer Ratings

Power BI Dashboard Preview:



Uber

Overall

Vehicle Type

₹

Revenue

Cancellation

★

Ratings

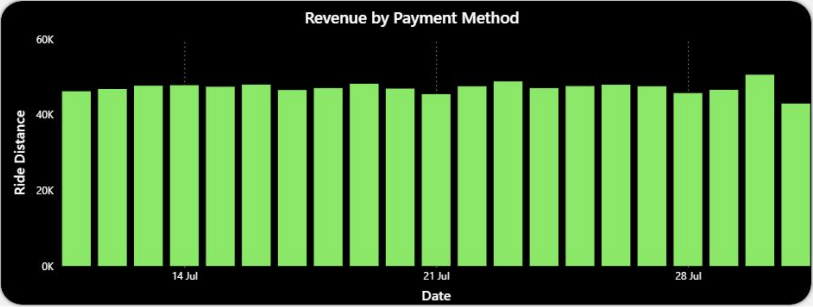
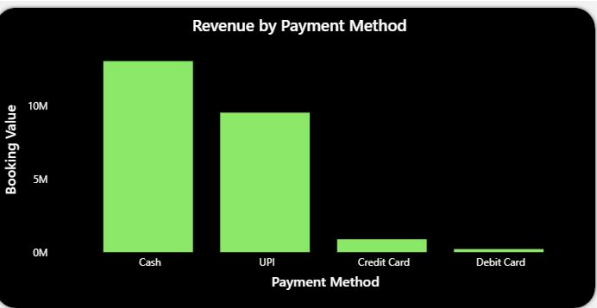
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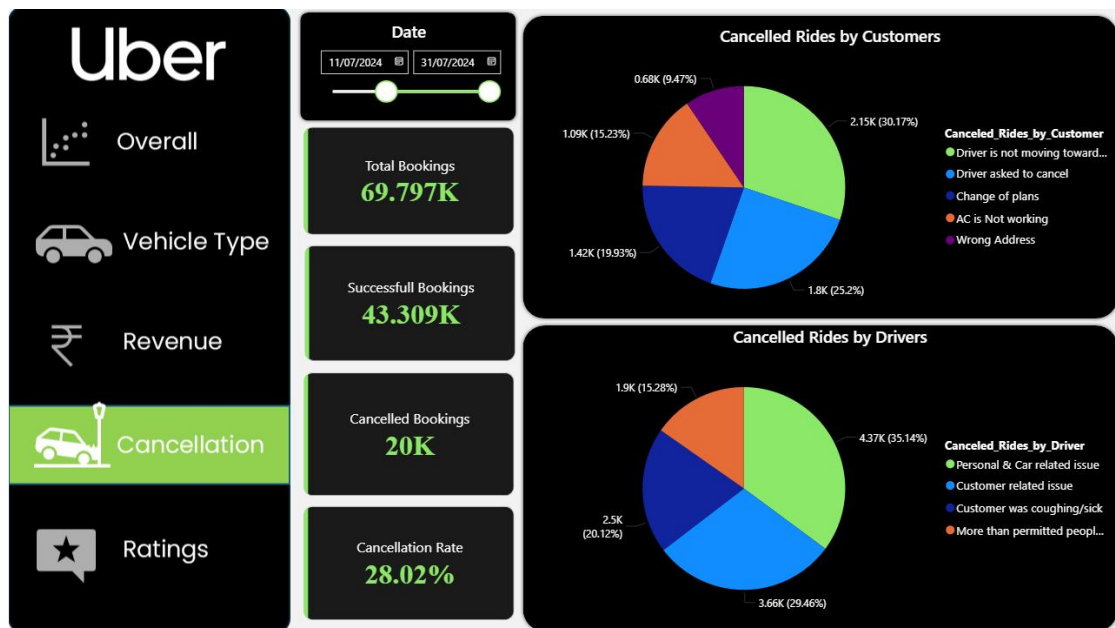
11/07/2024

31/07/2024

Top 5 Customers

Customer_ID	Booking Value
CID785112	8025
CID308763	6281
CID353074	6110
CID389515	5970
CID497169	5949
Total	32335





Uber

Overall

Vehicle Type

₹ Revenue

Cancellation

Ratings

Driver Ratings

11/07/202431/07/2024

Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
3.99	4.01	4.00	3.99	4.00	3.99	4.01

Customer Ratings

Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
4.01	4.00	4.00	4.00	4.00	4.00	3.99

