



**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=evJrIjoiOGUyNjRhYTUtMzUwNS00N2I3LTk0ODUtYWQwNjI1ZmU5NzhIiwidCI6ImUxNGU3M2ViLTUvNTEtNDM4OC04ZDY3LThmOWYyZTJkNWE0NiIsImMiOjEwfQ%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:







