**Data Analyst Project – Ola**

**Data Columns:**

1. Date
2. Time
3. Booking\_ID
4. Booking\_Status
5. Customer\_ID
6. Vehicle\_Type
7. Pickup\_Location
8. Drop\_Location
9. V\_TAT
10. C\_TAT
11. cancelled\_Rides\_by\_Customer
12. cancelled\_Rides\_by\_Driver
13. Incomplete\_Rides
14. Incomplete\_Rides\_Reason
15. Booking\_Value
16. Payment\_Method
17. Ride\_Distance
18. Driver\_Ratings
19. Customer\_Rating

**Questions Answered by SQL:**

**CREATE DATABASE Ola;**

**USE Ola;**

**Q1. Retrieve all successful bookings:**

SELECT \* FROM bookings WHERE Booking\_Status = 'Success';

OR

Create View Successful\_Bookings As

SELECT \* FROM bookings WHERE Booking\_Status = 'Success';

**Q2. Find the average ride distance for each vehicle type:**

SELECT Vehicle\_Type, AVG(Ride\_Distance) as avg\_distance FROM bookings GROUP BY Vehicle\_Type;

OR

Create View ride\_distance\_for\_each\_vehicle As

SELECT Vehicle\_Type, AVG(Ride\_Distance) as avg\_distance FROM bookings GROUP BY Vehicle\_Type;

**Q3. Get the total number of cancelled rides by customers:**

SELECT COUNT(\*) FROM bookings WHERE Booking\_Status = 'cancelled by Customer';

OR

Create View cancelled\_rides\_by\_customers As

SELECT COUNT(\*) FROM bookings WHERE Booking\_Status = 'cancelled by Customer';

**Q4. List the top 5 customers who booked the highest number of rides:**

SELECT Customer\_ID, COUNT(Booking\_ID) as total\_rides FROM bookings GROUP BY Customer\_ID ORDER BY total\_rides DESC LIMIT 5;

OR

Create View Top\_5\_Customers As

SELECT Customer\_ID, COUNT(Booking\_ID) as total\_rides FROM bookings GROUP BY Customer\_ID ORDER BY total\_rides DESC LIMIT 5;

**Q5. Get the number of rides cancelled by drivers due to personal and car-related issues:**

SELECT COUNT(\*) FROM bookings WHERE cancelled\_Rides\_by\_Driver = 'Personal & Car related issue';

OR

Create View Rides\_cancelled\_by\_Drivers\_P\_C\_Issues As

SELECT COUNT(\*) FROM bookings WHERE cancelled\_Rides\_by\_Driver = 'Personal & Car related issue';

**Q6. Find the maximum and minimum driver ratings for Prime Sedan bookings:**

SELECT MAX(Driver\_Ratings) as max\_rating, MIN(Driver\_Ratings) as min\_rating FROM bookings WHERE Vehicle\_Type = 'Prime Sedan';

OR

Create View Max\_Min\_Driver\_Rating As

SELECT MAX(Driver\_Ratings) as max\_rating, MIN(Driver\_Ratings) as min\_rating FROM bookings WHERE Vehicle\_Type = 'Prime Sedan';

**Q7. Retrieve all rides where payment was made using UPI:** SELECT \* FROM bookings WHERE Payment\_Method = 'UPI';

OR

Create View UPI\_Payment As

SELECT \* FROM bookings WHERE Payment\_Method = 'UPI';

**Q8. Find the average customer rating per vehicle type:**

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating FROM bookings GROUP BY Vehicle\_Type;

OR

Create View AVG\_Cust\_Rating As

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating FROM bookings GROUP BY Vehicle\_Type;

**Q9. Calculate the total booking value of rides completed successfully:**

SELECT SUM(Booking\_Value) as total\_successful\_value FROM bookings WHERE Booking\_Status = 'Success';

OR

Create View total\_successful\_ride\_value As

SELECT SUM(Booking\_Value) as total\_successful\_ride\_value FROM bookings WHERE Booking\_Status = 'Success';

**Q10. List all incomplete rides along with the reason:**

SELECT Booking\_ID, Incomplete\_Rides\_Reason FROM bookings WHERE Incomplete\_Rides = 'Yes';

OR

Create View Incomplete\_Rides\_Reason As

SELECT Booking\_ID, Incomplete\_Rides\_Reason FROM bookings WHERE Incomplete\_Rides = 'Yes';

**Retrieve data by view:**

1. **Retrieve all successful bookings:**

Select \* From Successful\_Bookings;

1. **Find the average ride distance for each vehicle type**:

Select \* from ride\_distance\_for\_each\_vehicle;

1. **Get the total number of cancelled rides by customers:**

Select \* from cancelled\_rides\_by\_customers;

1. **List the top 5 customers who booked the highest number of rides:**

Select \* from Top\_5\_Customers;

1. **Get the number of rides cancelled by drivers due to personal and car-related issues:**

Select \* from Rides\_cancelled\_by\_Drivers\_P\_C\_Issues;

1. **Find the maximum and minimum driver ratings for Prime Sedan bookings:**

Select \* from Max\_Min\_Driver\_Rating;

1. **Retrieve all rides where payment was made using UPI:**

Select \* from UPI\_Payment;

1. **Find the average customer rating per vehicle type:**

Select \* from AVG\_Cust\_Rating;

1. **Calculate the total booking value of rides completed successfully:** Select \* from total\_successful\_ride\_value;
2. **List all incomplete rides along with the reason:**

Select \* from Incomplete\_Rides\_Reason;

**Answered By Power BI Dashboard:**

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

* **Rides Over Time:** A line or bar chart showing how many rides happened each day or week.
* **Booking Status**: A pie chart showing percentages of successfulrides, customer cancellations, and driver cancellations.
* **Reasons for Cancellations:** A bar chart showing the main reasons rides were cancelled by customers and drivers.
* **Revenue by Payment Method:** A bar chart showing how much money came from each payment method (like Cash, UPI, or Credit Card).
* **Top Customers by Spending**: A list of the top 5 customers who spent the most on bookings.
* **Ride Distance Patterns:** A chart showing how ride distances vary for each day..
* **Customer vs Driver Ratings**: Table showing the range of driver vs Customer ratings for different vehicle types.