**OLA DATA ANALYST PROJECT**

**SQL Questions:**

1. Retrieve all successful bookings
2. Find the average ride distance for each vehicle type
3. Get the total number of canceled rides by customers
4. List the top 5 customers who booked the highest number of rides
5. Get the number of rides canceled 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. Canceled Rides Reasons
6. Revenue by Payment Method
7. Top 5 Customers by Total Booking Value
8. Ride Distance Distribution
9. Driver Ratings Distribution
10. Customer vs. Driver Ratings

***SQL Questions & Answers***

Create Database Ola;

Use Ola;

**#1. Retrieve all successful bookings:**

Create View Successful\_Bookings As

SELECT \* FROMbookings

WHERE Booking\_Status = 'Success';

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

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

SELECT Vehicle\_Type, AVG(Ride\_Distance)

as avg\_distance FROM bookings

GROUPBY Vehicle\_Type;

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

Create View cancelled\_rides\_by\_customers As

SELECT COUNT(\*) FROM bookings

WHERE Booking\_Status = 'cancelled by Customer';

**#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 total\_rides

FROM bookings

GROUPBY Customer\_ID

ORDERBY total\_rides DESC LIMIT 5;

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

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

SELECT COUNT(\*) FROM bookings

WHERE cancelled\_Rides\_by\_Driver = 'Personal & Car related issue';

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

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';

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

Create View UPI\_Payment As

SELECT \* FROMbookings

WHERE Payment\_Method = 'UPI';

**#8. Find the average customer rating per vehicle type:**

Create View AVG\_Cust\_Rating As

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_rating

FROM bookings

GROUP BY 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\_successful\_ride\_value

FROM bookings

WHERE Booking\_Status = 'Success';

**#10. List all incomplete rides along with the reason:**

Create View Incomplete\_Rides\_Reason As

SELECT Booking\_ID, Incomplete\_Rides\_Reason

FROM bookings

WHERE Incomplete\_Rides = 'Yes';

***Retrieve All Answers***

**#1. Retrieve all successful bookings:**

Select \* From Successful\_Bookings;

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

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

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

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

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

Select \* from Top\_5\_Customers;

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

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

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

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

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

Select \* from UPI\_Payment;

**#8. Find the average customer rating per vehicle type:**

Select \* from AVG\_Cust\_Rating;

**#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:**

Select \* from Incomplete\_Rides\_Reason;

***Power BI Answers:***

**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

**Answers:**

**1. Ride Volume Over Time: A time-series chart showing the number of rides per day/week.**

**2. Booking Status Breakdown: A pie or doughnut chart displaying the proportion of different**

**booking statuses (success, cancelled by the customer, cancelled by the driver, etc.).**

**3. Top 5 Vehicle Types by Ride Distance: A bar chart ranking vehicle types based on the total**

**distance covered.**

**4. Average Customer Ratings by Vehicle Type: A column chart showing the average**

**customer ratings for different vehicle types.**

**5. cancelled Rides Reasons: A bar chart that highlights the common reasons for ride**

**cancellations by customers and drivers.**

**6. Revenue by Payment Method: A stacked bar chart displaying total revenue based on**

**payment methods (Cash, UPI, Credit Card, etc.).**

**7. Top 5 Customers by Total Booking Value: A leaderboard visual listing customers who have**

**spent the most on bookings.**

**8. Ride Distance Distribution Per Day: A histogram or scatter plot showing the distribution of**

**ride distances for different Dates.**

**9. Driver Rating Distribution: A box plot visualizing the spread of driver ratings for different**

**vehicle types.**

**10. Customer vs. Driver Ratings: A scatter plot comparing customer and driver ratings for**

**each completed ride, analyzing correlations**