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

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 | 1. C\_TAT 2. cancelled\_Rides\_by\_Customer 3. cancelled\_Rides\_by\_Driver 4. Incomplete\_Rides 5. Incomplete\_Rides\_Reason 6. Booking\_Value 7. Payment\_Method 8. Ride\_Distance 9. Driver\_Ratings 10. Customer\_Rating |

SQL Answers:

1. **Retrieve all successful bookings:**

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

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

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

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

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

1. **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;

1. **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';

1. **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';
2. **Retrieve all rides where payment was made using UPI:** SELECT \* FROM bookings WHERE Payment\_Method = 'UPI';
3. **Find the average customer rating per vehicle type:**

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

GROUP BY Vehicle\_Type;

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

SELECT SUM(Booking\_Value) as total\_successful\_value FROM bookings WHERE

Booking\_Status = 'Success';

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

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

'Yes';

Power BI Answers:

Segregation of the views:

* 1. **Overall**
  + Ride Volume Over Time
  + Booking Status Breakdown
  1. **Vehicle Type**

- Top 5 Vehicle Types by Ride Distance

* 1. **Revenue**
  + Revenue by Payment Method
  + Top 5 Customers by Total Booking Value
  + Ride Distance Distribution Per Day
  1. **Cancellation**
  + Cancelled Rides Reasons (Customer)
  + cancelled Rides Reasons(Drivers)
  1. **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.

# SQL Questions & Answers

Create Database Ola;

Use Ola;

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

Create View Successful\_Bookings As

SELECT \* FROM bookings

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 GROUP BY 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

GROUP BY Customer\_ID

ORDER BY 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 \* FROM bookings

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;