**SQL - OLA Project**

**Objectives:**

* Retrieve successful bookings and payment details.
* Analyze ride distances and vehicle type distribution.
* Identify top customers and their ride frequency.
* Investigate ride cancellations by customers and drivers.
* Assess driver and customer ratings per vehicle type.
* Calculate total booking value of successful rides.

**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:

**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';

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#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;

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#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;