

OLA BOOKING DATA ANALYSIS SQL QUERIES

#DATABASE CREATE

```
create database Ola;
```

```
use Ola;
```

#SQL Questions:

#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 canceled_rides_by_customer 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_Issue AS  
SELECT COUNT(*) FROM bookings  
where Canceled_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';
```

#1. Retrieve all successful bookings:

Select * From Successful_Bookings;

Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	Incomplete_Rides_Reason	Booki
2024-07-25 22:20:00	22:20:00	CNR294024040	Success	CID225428	Bike	Magadi Road	Varthur	203	30	NULL	NULL	No	NULL	158
2024-07-30 19:59:00	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL	NULL	No	NULL	386
2024-07-02 9:02:00	9:02:00	CNR1797421769	Success	CID939355	Mini	Rajajinagar	Chamrajpet	252	80	NULL	NULL	No	NULL	822
2024-07-13 4:42:00	4:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL	NULL	No	NULL	173
2024-07-23 9:51:00	9:51:00	CNR3612067560	Success	CID476071	Bike	Tumkur Road	Whitefield	133	40	NULL	NULL	No	NULL	140
2024-07-29 23:33:00	23:33:00	CNR4787583516	Success	CID923404	Prime Plus	Hosur Road	Jayanagar	35	55	NULL	NULL	No	NULL	164
2024-07-26 4:03:00	4:03:00	CNR7943634301	Success	CID647026	Prime Plus	Kammanahalli	Rajajinagar	238	95	NULL	NULL	No	NULL	399
2024-07-27 13:18:00	13:18:00	CNR4524472111	Success	CID549929	Auto	Cox Town	Yelahanka	126	35	NULL	NULL	No	NULL	330
2024-07-16 9:54:00	9:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL	NULL	No	NULL	378
2024-07-02 10:25:00	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	NULL	NULL	No	NULL	343

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

Select * from ride_distance_for_each_vehicle;

Vehicle_Type	avg_distance
Prime Sedan	15.7649
Bike	15.5331
Prime SUV	15.2745
eBike	15.5806
Mini	15.5101
Prime Plus	15.4475
Auto	6.2381

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

Select * from canceled_rides_by_customer;

Result Grid	
	COUNT(*)
▶	10499

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

Select * from Top_5_Customers;

	Customer_ID	total_rides
▶	CID954071	5
	CID539191	4
	CID189965	4
	CID268274	4
	CID952434	4

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

SELECT * FROM Rides_cancelled_by_Drivers_P_C_Issue;

Result Grid	
COUNT(*)	
6542	

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

Select * from Max_Min_Driver_Rating;

Result Grid		
	max_rating	min_rating
	5	3

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

Select * from UPI_Payment;

Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	Incomplete_Rides_Reason	Booki
2024-07-30 19:59:00	19:59:00	CNR2982357879	Success	CID27159	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL	NULL	No	NULL	386
2024-07-13 4:42:00	4:42:00	CNR878177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL	NULL	No	NULL	173
2024-07-27 13:18:00	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	NULL	NULL	No	NULL	330
2024-07-16 9:54:00	9:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL	NULL	No	NULL	378
2024-07-02 10:25:00	10:25:00	CNR8090918544	Success	CID649151	Bike	Magadi Road	HSR Layout	126	95	NULL	NULL	No	NULL	343
2024-07-09 11:11:00	11:11:00	CNR9979925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	NULL	NULL	No	NULL	343
2024-07-19 21:18:00	21:18:00	CNR4443921904	Success	CID654618	Mini	Tumkur Road	Koramangala	231	50	NULL	NULL	No	NULL	286
2024-07-25 3:44:00	3:44:00	CNR7194303232	Success	CID538245	Mini	Mysore Road	Hennur	175	50	NULL	NULL	No	NULL	141
2024-07-15 17:11:00	17:11:00	CNR6494005067	Success	CID805360	Auto	Yelahanka	Malleshwaram	84	60	NULL	NULL	No	NULL	214
2024-07-14 5:25:00	5:25:00	CNR7142279862	Success	CID378034	eBike	Yeshwanthpur	JP Nagar	210	45	NULL	NULL	No	NULL	461
2024-07-03 0:58:00	0:58:00	CNR5176704322	Success	CID296026	Prime Plus	KR Puram	Hennur	287	40	NULL	NULL	Yes	Customer Demand	1102
2024-07-10 21:55:00	21:55:00	CNR7473222201	Success	CID654618	Prime Plus	Hennur	Koramangala	210	105	NULL	NULL	No	NULL	***

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

Select * from AVG_Cust_Rating;

Vehicle_Type	avg_customer_rating
Prime Sedan	4.001588655506982
Bike	3.993376395883525
Prime SUV	3.999377501111586
eBike	3.98785403050109
Mini	3.9977312970341075
Prime Plus	4.009498622589555
Auto	3.998810952329009

#9. Calculate the total booking value of rides completed successfully:

Select * from total_successful_ride_value;

total_successful_ride_value
35080467

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

Select * from Incomplete_Rides_Reason;

	Booking_ID	Incomplete_Rides_Reason
▶	CNR5176704322	Customer Demand
	CNR9312632867	Vehicle Breakdown
	CNR7924302885	Customer Demand
	CNR1640228587	Other Issue
	CNR7623690602	Other Issue
	CNR9590311980	Customer Demand
	CNR5863244684	Customer Demand
	CNR9526078867	Customer Demand
	CNR7154043084	Customer Demand
	CNR3193710797	Other Issue
	CNR7073850950	Customer Demand
	CNR000000000001	Customer Demand