SQL QUESTIONS

NOTE → I have put all SQL queries in views so that we can directly call the view instead of retyping the queries.

Retrieve all successful bookings.

```
create view Successful_Bookings as
select * from Kolkata_Booking_Data
where Booking_Status='Success'

select * from Successful_Bookings
```

Results | Messages

	Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	Avg_VTAT	Avg_CTAT
1	2025-01-01 00:00:00.0000000	15:59:50.0000000	CNR448399133	Success	708831	Auto	Area 5	Area 21	3.60999989509583	16.6000003814697
2	2025-01-07 00:00:00.0000000	17:24:38.0000000	CNR983427477	Success	314848	Prime Sedan	Area 23	Area 15	6.07000017166138	18.4699993133545
3	2025-01-20 00:00:00.0000000	01:01:51.0000000	CNR127832865	Success	561503	Prime Sedan	Area 13	Area 38	3.45000004768372	19.0400009155273
4	2025-01-02 00:00:00.0000000	23:15:31.0000000	CNR479925723	Success	956413	Prime Plus	Area 4	Area 19	4.44000005722046	8.89000034332275
5	2025-01-22 00:00:00.0000000	16:29:39.0000000	CNR647149012	Success	479071	Prime SUV	Area 50	Area 37	4.21999979019165	14.4200000762939
6	2025-01-18 00:00:00.0000000	15:28:00.0000000	CNR437080758	Success	619879	eBike	Area 46	Area 23	2.3199999332428	9.17000007629395
7	2025-01-11 00:00:00.0000000	19:55:57.0000000	CNR313087442	Success	413269	Prime Sedan	Area 19	Area 44	3.65000009536743	11.4499998092651
8	2025-01-21 00:00:00.0000000	10:41:03.0000000	CNR928794496	Success	997788	Mini	Area 38	Area 38	6.34000015258789	5.5
9	2025-01-13 00:00:00.0000000	06:28:12.0000000	CNR175711820	Success	872245	Prime Plus	Area 2	Area 48	7.40999984741211	5.71999979019165
10	2025-01-06 00:00:00.0000000	08:59:39.0000000	CNR947799065	Success	174077	Prime Plus	Area 21	Area 34	3.74000000953674	7.36999988555908

Find the average ride distance for each vehicle type.

```
create view Avg_Ride_Distance as
select Vehicle_Type, round(avg(Ride_Distance),2) from Kolkata_Booking_Data
group by Vehicle_Type

select * from Avg_Ride_Distance
```

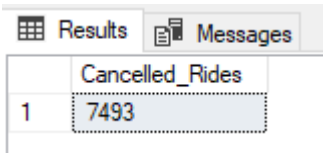
Results | Messages

	Vehicle_Type	(No column name)
1	eBike	15.46
2	Prime Sedan	15.62
3	Bike	15.37
4	Prime Plus	15.56
5	Prime SUV	15.43
6	Auto	15.52
7	Mini	15.56

Get the total number of cancelled rides by customers

```
create view Cancelled_By_Customers as
select count(*) Cancelled_Rides from Kolkata_Booking_Data
where Booking_Status='Cancelled by Customer'
```

select * from Cancelled_By_Customers

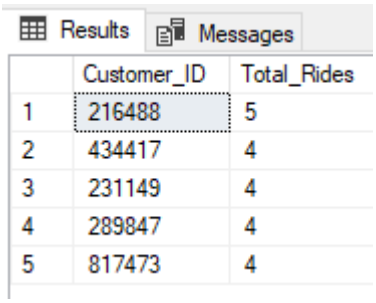


	Cancelled_Rides
1	7493

List the top 5 customers who booked the highest number of rides

```
create view Top_5_Customers as
select top 5 Customer_ID, count(Booking_ID) Total_Rides from Kolkata_Booking_Data
group by Customer_ID order by Total_Rides desc

select * from Top_5_Customers
```

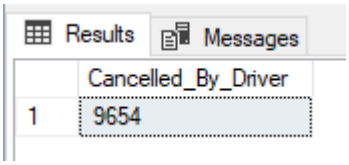


	Customer_ID	Total_Rides
1	216488	5
2	434417	4
3	231149	4
4	289847	4
5	817473	4

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

```
create view Cancelled_By_Driver as
select count(Booking_ID) Cancelled_By_Driver from Kolkata_Booking_Data
where Cancelled_Rides_by_Driver_Reason='Personal & Car related issues'

select * from Cancelled_By_Driver
```

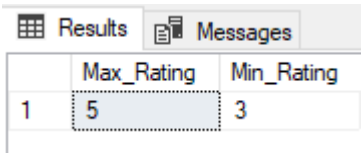


	Cancelled_By_Driver
1	9654

Find the maximum and minimum driver ratings for Prime Sedan bookings

```
create view Max_Min_Rating as
select max(Driver_Ratings) Max_Rating, min(Driver_Ratings) Min_Rating
from Kolkata_Booking_Data
where Vehicle_Type='Prime Sedan'
```

select * from Max_Min_Rating

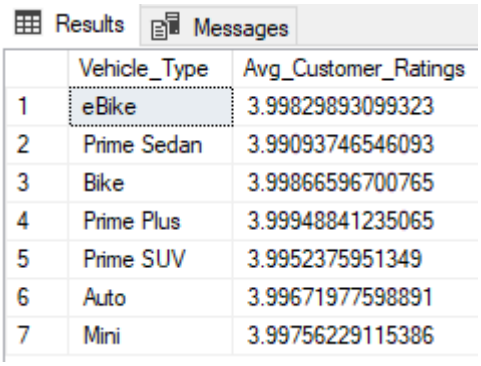


	Max_Rating	Min_Rating
1	5	3

Find the average customer rating per vehicle type

create view Avg_Customer_Ratings as
select Vehicle_Type, avg(Customer_Rating) Avg_Customer_Ratings from
Kolkata_Booking_Data
group by Vehicle_Type

select * from Avg_Customer_Ratings

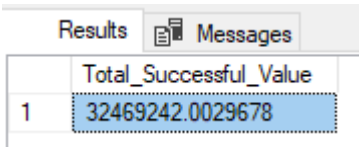


	Vehicle_Type	Avg_Customer_Ratings
1	eBike	3.99829893099323
2	Prime Sedan	3.99093746546093
3	Bike	3.99866596700765
4	Prime Plus	3.99948841235065
5	Prime SUV	3.9952375951349
6	Auto	3.99671977598891
7	Mini	3.99756229115386

Calculate the total booking value of rides completed successfully

create view Total_Successful_Value as
select sum(Booking_Value) Total_Successful_Value from Kolkata_Booking_Data
where Booking_Status='Success'

select * from Total_Successful_Value



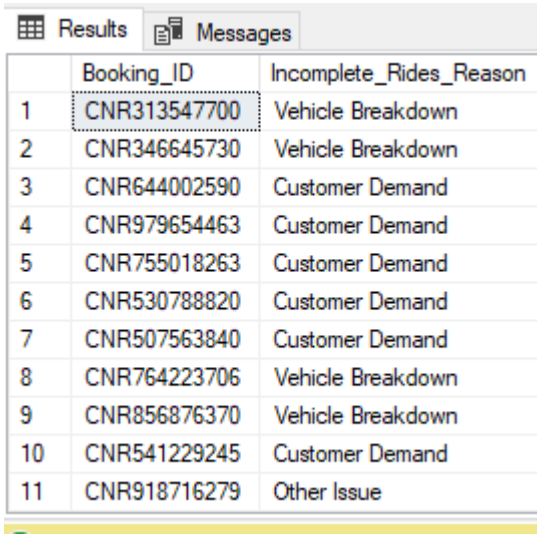
	Total_Successful_Value
1	32469242.0029678

List all incomplete rides along with the reason

create view Incomplete_Rides_Reason as
select Booking_ID, Incomplete_Rides_Reason from Kolkata_Booking_Data

where Booking_Status='Incomplete'

select * from Incomplete_Rides_Reason



Results Messages

	Booking_ID	Incomplete_Rides_Reason
1	CNR313547700	Vehicle Breakdown
2	CNR346645730	Vehicle Breakdown
3	CNR644002590	Customer Demand
4	CNR979654463	Customer Demand
5	CNR755018263	Customer Demand
6	CNR530788820	Customer Demand
7	CNR507563840	Customer Demand
8	CNR764223706	Vehicle Breakdown
9	CNR856876370	Vehicle Breakdown
10	CNR541229245	Customer Demand
11	CNR918716279	Other Issue