

OLA SQL ANALYSIS

SQL Questions:

```
SELECT *  
  
FROM [Ola Dataset].[dbo].[Ola Bookings]
```

Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Picking_Location	Drop_Location	V_TAT	C_TAT	Cancelled_Rides_Lg_Customer	Cancelled_Rides_Lg_Driver	Successful_Rides	Successful_Rides_Ratio	Booking_Yrds	Payment_Mchgs	Rides_Distance	Driver_Rating	Customer_Rating	Vehicle_Images
2024-07-26 14:00:00	14:00:00	CMF0726120182	Cancelled by Driver	CD017522	Prime Sedan	Taxler Road	RT Near	not	not	not	Cancelled & Car related issue	not	not	444	not	0	not	not	not
2024-07-27 12:00:00	12:00:00	CMF0726144846	Success	CD015428	Bike	Musad Road	Varber	205	10	not	not	not	not	85	Cash	15	4.1	4	not
2024-07-28 18:30:00	18:30:00	CMF0728220178	Success	CD015076	Prime SUV	Lakshar Near	Varber	238	10	not	not	not	not	106	UPI	40	4.2	4.8	not
2024-07-28 17:00:00	17:00:00	CMF0728170076	Cancelled by Customer	CD015103	idBus	RT Near	Chimur	not	not	Chimur is not working towards pickup location	not	not	not	156	not	0	not	not	not
2024-07-28 09:00:00	09:00:00	CMF0728172678	Success	CD015955	Micr	Rajawar	Chimur	252	80	not	not	not	not	822	Cash Card	45	4	3	not
2024-07-31 14:00:00	14:00:00	CMF0731184889	Success	CD016491	Bike	Kulabadi	Vijayapur	231	30	not	not	not	not	173	UPI	41	3.4	4.6	not
2024-07-23 15:00:00	09:00:00	CMF0723020760	Success	CD016071	Bike	Taxler Road	Vijayabadi	132	40	not	not	not	not	90	Cash	49	3.2	4.5	not
2024-07-31 17:00:00	17:00:00	CMF0731184889	Cancelled by Driver	CD015951	Prime SUV	Ramachandrapur Road	Lakshar Road	not	not	Cancelled & Car related issue	not	not	not	144	not	0	not	not	not
2024-07-31 18:30:00	18:30:00	CMF0731080254	Driver Not Found	CD016840	Micr	Chimur	Pran	not	not	not	not	not	not	635	not	0	not	not	not
2024-07-31 13:00:00	07:00:00	CMF0731032328	Cancelled by Driver	CD017103	Auto	RT Near	Varber	not	not	not	Cancelled & Car related issue	not	not	855	not	0	not	not	not
2024-07-28 22:00:00	22:00:00	CMF0728170076	Success	CD015444	Prime SUV	How Road	Jayawar	35	15	not	not	not	not	94	Cash	45	4.2	3.4	not
2024-07-28 4:05:00	04:05:00	CMF0728170076	Success	CD016026	Prime SUV	Kanawadli	Rajawar	238	35	not	not	not	not	333	not	18	3.9	4.4	not
2024-07-27 18:00:00	15:00:00	CMF0727184846	Success	CD015955	Auto	Cin Town	Vijayabadi	126	35	not	not	not	not	200	UPI	6	3	4.6	not
2024-07-17 15:00:00	15:00:00	CMF0717150202	Cancelled by Driver	CD015945	Auto	How Road	Boudakari	not	not	not	Cancelled & Car related issue	not	not	427	not	0	not	not	not
2024-07-16 15:40:00	09:50:00	CMF0716150002	Success	CD017642	Bike	Indrapur	MG Road	70	35	not	not	not	not	175	UPI	36	4.6	4.1	not
2024-07-28 20:20:00	15:00:00	CMF0728170076	Success	CD016055	Bike	Musad Road	RTM Laxar	126	35	not	not	not	not	143	UPI	20	2.7	3.6	not
2024-07-02 22:00:00	22:00:00	CMF0702220000	Driver Not Found	CD015054	Micr	Ramachandrapur Near	RTM Laxar	not	not	not	not	not	not	156	not	0	not	not	not
2024-07-03 23:42:00	23:42:00	CMF0703234846	Success	CD016275	Bike	Electronic City	Lakshar Town	140	40	not	not	not	not	401	Cash	8	3.3	3.9	not
2024-07-03 15:00:00	15:00:00	CMF0703150000	Success	CD016055	Prime SUV	RT Near	RT Near	42	10	not	not	not	not	143	UPI	11	3	3.8	not
2024-07-31 14:44:00	14:44:00	CMF0731144400	Success	CD016071	idBus	Kanawadli	Indrapur Road	245	70	not	not	not	not	2094	Cash	13	4.2	4.9	not
2024-07-31 10:42:00	20:42:00	CMF0731104200	Success	CD016055	idBus	Boudakari	Indrapur	14	25	not	not	not	not	650	Cash	24	4.9	3.4	not
2024-07-28 22:00:00	22:00:00	CMF0728170076	Success	CD016071	Prime Sedan	Padmanabhapur	Jayawar	168	65	not	not	not	not	231	Cash	2	3.2	3.7	not
2024-07-16 15:00:00	15:00:00	CMF0716150002	Cancelled by Driver	CD015942	Prime SUV	Myson Road	Vijayapur	not	not	not	Cancelled & Car related issue	not	not	809	not	0	not	not	not
2024-07-03 18:20:00	18:20:00	CMF0703182000	Success	CD015912	Bike	Kanawadli	RTM Laxar	231	145	not	not	not	not	93	Cash	6	4.9	5.3	not
2024-07-31 17:00:00	21:00:00	CMF0731170000	Success	CD016491	Prime SUV	Musad Road	Kanawadli	36	100	not	not	not	not	291	Cash	20	4.0	3	not
2024-07-19 21:00:00	21:00:00	CMF0719210000	Success	CD016491	Prime SUV	Taxler Road	Kanawadli	231	30	not	not	not	not	286	UPI	44	4	3.3	not
2024-07-31 14:44:00	09:44:00	CMF0731144400	Success	CD016045	Micr	Myson Road	Pran	175	50	not	not	not	not	141	UPI	35	4.7	3.1	not
2024-07-31 17:00:00	17:00:00	CMF0731170000	Success	CD016491	Auto	Vijayabadi	Madhavapur	64	40	not	not	not	not	274	UPI	2	3.3	4.5	not
2024-07-31 18:44:00	18:44:00	CMF0731184400	Success	CD016026	Prime SUV	Indrapur	Indrapur	35	145	not	not	not	not	2003	Cash	20	4	4.4	not
2024-07-23 15:00:00	09:00:00	CMF0723150000	Cancelled by Customer	CD017642	Prime SUV	Rajawar	Chimur	not	not	Chimur is not working towards pickup location	not	not	not	604	not	0	not	not	not
2024-07-23 10:44:00	07:04:00	CMF0723104400	Driver Not Found	CD016404	Auto	RT Near	Vijayabadi	not	not	not	not	not	not	832	not	0	not	not	not
2024-07-27 15:00:00	06:40:00	CMF0727150000	Success	CD016055	idBus	Pran Town	Indrapur	189	65	not	not	not	not	1005	Cash	36	4.6	4.7	not
2024-07-23 15:00:00	15:00:00	CMF0723150000	Cancelled by Customer	CD016055	idBus	Chimur	Rikshar Town	not	not	Driver is not working towards pickup location	not	not	not	50	not	0	not	not	not
2024-07-23 15:00:00	15:00:00	CMF0723150000	Cancelled by Customer	CD016055	idBus	Chimur	How Road	49	65	not	not	not	not	243	Cash	22	3.2	3.5	not
2024-07-18 12:00:00	05:00:00	CMF0718120000	Success	CD016062	Prime Sedan	Musadli	Jayawar	77	90	not	not	not	not	475	Cash	45	4.3	3.1	not
2024-07-23 15:00:00	05:00:00	CMF0723150000	Cancelled by Driver	CD016064	Prime SUV	Vijayabadi	RT Near	230	45	not	not	not	not	401	UPI	40	4.5	3.1	not
2024-07-23 15:00:00	05:00:00	CMF0723150000	Cancelled by Driver	CD016064	Auto	Pran	How Road	not	not	not	Cancelled & related issue	not	not	783	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	KR Pran	Pran	287	40	not	not	not	not	395	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0724120000	Cancelled by Driver	CD016064	Prime SUV	How Road	Vijayabadi	not	not	not	Cancelled & related issue	not	not	190	not	0	not	not	not
2024-07-24 12:00:00	12:00:00	CMF0																	

GO

CREATE VIEW Successful_Bookings_View AS

SELECT *

FROM [Ola Bookings]

WHERE Booking_Status = 'Success';

GO

Select * from Successful_Bookings_View;

	Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	C.
1	2024-07-25 22:20:00.0000000	22:20:00.0000000	CNR2940424040	Success	CID225428	Bike	Magadi Road	Varthur	203	30	n
2	2024-07-30 19:59:00.0000000	19:59:00.0000000	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	n
3	2024-07-02 09:02:00.0000000	09:02:00.0000000	CNR1797421769	Success	CID939555	Mini	Rajajinagar	Chamarajpet	252	80	n
4	2024-07-13 04:42:00.0000000	04:42:00.0000000	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	n
5	2024-07-23 09:51:00.0000000	09:51:00.0000000	CNR3612067560	Success	CID476071	Bike	Tumkur Road	Whitefield	133	40	n
6	2024-07-29 23:33:00.0000000	23:33:00.0000000	CNR4787583516	Success	CID923404	Prime Plus	Hosur Road	Jayanagar	35	55	n
7	2024-07-26 04:03:00.0000000	04:03:00.0000000	CNR7943634301	Success	CID647026	Prime Plus	Kammanahalli	Rajajinagar	238	95	n
8	2024-07-27 13:18:00.0000000	13:18:00.0000000	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	n
9	2024-07-16 09:54:00.0000000	09:54:00.0000000	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	n
10	2024-07-02 10:25:00.0000000	10:25:00.0000000	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	n
11	2024-07-05 23:42:00.0000000	23:42:00.0000000	CNR3196156650	Success	CID243275	Bike	Electronic Ctv	Landford Town	140	40	n

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

Go

CREATE VIEW Ride_Distance_For_Vehicle_type as

Select Vehicle_Type, CAST(AVG(CAST(Ride_Distance as float)) as decimal(10,2)) Average_Ride_Distance

from [Ola Bookings]

Group by Vehicle_Type

Go

Select * from Ride_Distance_For_Vehicle_type

Order by Average_Ride_Distance DESC

	Vehicle_Type	Average_Ride_Distance
1	Prime Sedan	15.76
2	eBike	15.58
3	Bike	15.53
4	Mini	15.51
5	Prime Plus	15.45
6	Prime SUV	15.27
7	Auto	6.24

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

GO

```
CREATE VIEW Number_of_Canceled_Rides_by_Customers AS
```

```
Select COUNT(*) Total_Rides_Canceled_By_Customers from [Ola Bookings]
```

```
Where Booking_Status = 'Canceled by Customer';
```

GO

```
Select * from Number_of_Canceled_Rides_by_Customers
```

	Total_Rides_Canceled_By_Customers
1	10499

4. List the top 10 customers who booked the highest number of rides:

GO

```
CREATE VIEW Top_10_Customers_with_Higest_Rides AS
```

```
Select TOP 10 Customer_ID, Count(Booking_ID) Total_Rides
```

```
from [Ola Bookings]
```

```
Group by Customer_ID
```

```
Order by Count(Booking_ID) DESC
```

GO

```
Select * from Top_10_Customers_with_Higest_Rides
```

	Customer_ID	Total_Rides
1	CID954071	5
2	CID779459	4
3	CID189965	4
4	CID201733	4
5	CID969725	4
6	CID268274	4
7	CID387617	4
8	CID288207	4
9	CID460299	4
10	CID819034	4

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

GO

```
CREATE VIEW Canceled_Rides_by_Driver_due_Personal_And_Car_related_issue AS
```

Select COUNT(*) Total_Rides_Canceled_By_Drivers from [Ola Bookings]

Where Canceled_Rides_by_Driver = 'Personal & Car related issue';

GO

Select * from Canceled_Rides_by_Driver_due_Personal_And_Car_related_issue

	Total_Rides_Canceled_By_Drivers
1	6542

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

GO

Create VIEW Max_and_Min_Rating_Driver_Rating_for_Prime_Sedan_bookings AS

Select MAX(Driver_Ratings) as Max_Rating, MIN(Driver_Ratings) Min_Rating

from [Ola Bookings]

Where Vehicle_Type = 'Prime Sedan'

GO

Select * from Max_and_Min_Rating_Driver_Rating_for_Prime_Sedan_bookings

	Max_Rating	Min_Rating
1	5	3

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

GO

Create View Bookings_Where_Payment_Was_Made_Using_UPI AS

Select * from [Ola Bookings]

where Payment_Method = 'UPI'

GO

Select * from Bookings_Where_Payment_Was_Made_Using_UPI

	ocation	V_TAT	C_TAT	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	Incomplete_Rides_Reason	Booking_Value	Payment_Method
1		238	130	null	null	No	null	386	UPI
2	gar	231	90	null	null	No	null	173	UPI
3	ca	126	35	null	null	No	null	330	UPI
4	d	70	95	null	null	No	null	378	UPI
5	out	126	95	null	null	No	null	343	UPI
6	ir	42	30	null	null	No	null	343	UPI
7	igala	231	50	null	null	No	null	286	UPI
8		175	50	null	null	No	null	141	UPI
9	varam	84	60	null	null	No	null	214	UPI
10	r	210	45	null	null	No	null	461	UPI
11		287	40	null	null	Yes	Customer Demand	1102	UPI

8. Find the average customer rating per vehicle type:

GO

Create View Avg_Customer_Rating_by_Vehicle_type AS

Select Vehicle_Type, CAST(AVG(Customer_Rating) as decimal(10,2)) Avg_Customer_Rating

from [Ola Bookings]

Group by Vehicle_Type

GO

Select * from Avg_Customer_Rating_by_Vehicle_type

Order by Avg_Customer_Rating DESC

	Vehicle_Type	Avg_Customer_Rating
1	Prime Plus	4.01
2	Prime SUV	4.00
3	Auto	4.00
4	Mini	4.00
5	Prime Sedan	4.00
6	Bike	3.99
7	eBike	3.99

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

GO

Create View Total_Booking_Value_of_Successful_Rides AS

Select SUM(Booking_Value) Total_Success_Booking_Value from [Ola Bookings]

Where Booking_Status = 'Success'

GO

Select * from Total_Booking_Value_of_Successful_Rides

	Total_Success_Booking_Value
1	35080467

10. List all incomplete rides along with the reason

GO

Create View All_Incomplete_Rides_by_Reason AS

Select Booking_ID, Incomplete_Rides_Reason from [Ola Bookings]

Where Incomplete_Rides = 'Yes'

GO

Select * from All_Incomplete_Rides_by_Reason

	Booking_ID	Incomplete_Rides_Reason
1	CNR5176704322	Customer Demand
2	CNR9312632867	Vehicle Breakdown
3	CNR7924302885	Customer Demand
4	CNR1640228587	Other Issue
5	CNR7623690602	Other Issue
6	CNR9590311980	Customer Demand
7	CNR5863244684	Customer Demand
8	CNR9526078867	Customer Demand
9	CNR7154043084	Customer Demand
10	CNR3193710797	Other Issue
11	CNR7073850950	Customer Demand
12	CNR9952584604	Customer Demand
13	CNR5433575259	Vehicle Breakdown
14	CNR3575066041	Vehicle Breakdown
15	CNR7537935962	Customer Demand
16	CNR2722435581	Vehicle Breakdown
17	CNR5495479048	Other Issue
18	CNR6585703917	Customer Demand
19	CNR3178581771	Customer Demand
20	CNR7582255360	Vehicle Breakdown
21	CNR8535011317	Customer Demand
22	CNR5106611023	Other Issue

✔ Query executed successfully.