OLA SQL ANALYSIS

SQL Questions:

SELECT *

 FROM [Ola Dataset].[dbo].[Ola Bookings]

Total Number of Records

Select COUNT(*) Total_Records from [Ola Bookings]

	Total_Records
1	103024

1.Find Total Number of Sucessful bookings And Retrieve all successful bookings:

SELECT COUNT(*) Total_Successful_Bookings FROM [Ola Bookings]

WHERE Booking_Status = 'Success';

	Total_Successful_Bookings
1	63967

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 City	Langford 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

	cation	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	ka	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	r	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.