Data Analyst Project

Data Columns:

1. Date
2. Time
3. Booking_ID
4. Booking_Status
5. Customer_ID
6. Vehicle_Type
7. Pickup_Location
8. Drop_Location
9. V_TAT
10. C_TAT
11. cancelled_Rides_by_Customer
12. cancelled_Rides_by_Driver
13. Incomplete_Rides
14. Incomplete_Rides_Reason
15. Booking_Value
16. Payment_Method
17. Ride_Distance
18. Driver_Ratings
19. Customer_Rating

SQL Questions & Answers:

1. Retrieve all successful bookings:

select * from bookings where Booking_Status='Success';

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	Incom
2024-07-25 22:20:00	22:20:00	CNR2940424040	Success	CID225428	Bike	Magadi Road	Varthur	203	30	NULL	NULL	No
2024-07-30 19:59:00	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL	NULL	No
2024-07-02 9:02:00	09:02:00	CNR1797421769	Success	CID939555	Mini	Rajajinagar	Chamarajpet	252	80	NULL	NULL	No
2024-07-13 4:42:00	04:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL	NULL	No
2024-07-23 9:51:00	09:51:00	CNR3612067560	Success	CID476071	Bike	Tumkur Road	Whitefield	133	40	NULL	NULL	No
2024-07-29 23:33:00	23:33:00	CNR4787583516	Success	CID923404	Prime Plus	Hosur Road	Jayanagar	35	55	NULL	NULL	No
2024-07-26 4:03:00	04:03:00	CNR7943634301	Success	CID647026	Prime Plus	Kammanahalli	Rajajinagar	238	95	NULL	NULL	No
2024-07-27 13:18:00	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	NULL	NULL	No
2024-07-16 9:54:00	09:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL	NULL	No
2024-07-02 10:25:00	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	NULL	NULL	No
2024-07-05 23:42:00	23:42:00	CNR3196156650	Success	CID243275	Bike	Electronic City	Langford Town	140	40	NULL	NULL	No
2024-07-09 11:11:00	11:11:00	CNR9975925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	NULL	NULL	No
2024-07-12 14:44:00	14:44:00	CNR1591113431	Success	CID902781	eBike	Koramangala	Sarjapur Road	245	70	NULL	NULL	No
2024-07-11 20:42:00	20:42:00	CNR3650331573	Success	CID217093	eBike	Basavanagudi	Hulimavu	84	25	NULL	NULL	No

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

select Vehicle_Type, avg(Ride_Distance) as Avg_Distance from bookings group by Vehicle_Type;

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 count(*) as cancelled_by_customers from bookings where Booking_Status = 'Canceled by Customer';

cancelled_by_customers
10499

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

select Customer_ID, count(Booking_ID) as total_rides from bookings group by Customer_ID order by total_rides desc limit 5;

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 count(*) as cancelled_by_drivers_due_to_personal_and_car_related from bookings where Canceled_Rides_by_Driver='Personal & Car related issue';

	cancelled_by_drivers_due_to_personal_and_car_r
▶	6542

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

select max(Customer_Rating) as Max_Rating,min(Customer_Rating) as Min_Rating from bookings where Vehicle_Type="Prime Sedan";

	Max_Rating	Min_Rating
▶	5	3

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

select * from bookings where Payment_Method="UPI";

Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	Incomplete_Rides_Reason	Booking_Value	Payment_Method	Ride_Distance	Driver_Ratings	Customer_Rating	Vehicle Images
NULL	NULL	No	NULL	386	UPI	40	4.2	4.8	#NAME?
NULL	NULL	No	NULL	173	UPI	41	3.4	4.6	#NAME?
NULL	NULL	No	NULL	330	UPI	8	3	4.8	#NAME?
NULL	NULL	No	NULL	378	UPI	18	4.8	4.1	#NAME?
NULL	NULL	No	NULL	343	UPI	23	3.7	3.6	#NAME?
NULL	NULL	No	NULL	343	UPI	17	3	3.8	#NAME?
NULL	NULL	No	NULL	286	UPI	44	4	3.3	#NAME?

8. Find the average customer rating per vehicle type:

select Vehicle_Type, avg(Customer_Rating) as Avg_Customer_Rating from bookings group by Vehicle_Type;

	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 sum(Booking_Value) as total_successful_value from bookings where Booking_Status="Success";

	total_successful_value
▶	35080467

10. List all incomplete rides along with the reason:

Select Booking_ID, Incomplete_Rides_Reason from bookings where Incomplete_Rides="Yes";

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

11. Find the most popular pickup and drop locations based on the number of rides.

-- Most Popular Pickup Locations

select Pickup_Location,count(*) as Ride_Count from bookings group by Pickup_Location order by Ride_Count Desc limit 5;

Pickup_Location	Ride_Count
Banashankari	2201
Yeshwanthpur	2139
RT Nagar	2135
Indiranagar	2133
Sahakar Nagar	2126

-- Most Popular Drop Locations

select Drop_Location,count(*) as Ride_Count from bookings group by Drop_Location order by Ride_Count Desc limit 5;

Drop_Location	Ride_Count
Peenya	2159
Mysore Road	2148
MG Road	2128
Hennur	2120
HSR Layout	2117

12. Get the percentage of successful bookings for each vehicle type.

select Vehicle_Type,count(case when Booking_Status='Success' then 1 end) / count(Booking_ID) * 100 as Success_Percentage from bookings group by Vehicle_Type order by Success_Percentage desc;

Vehicle_Type	Success_Percentage
Prime Sedan	63.0436
Bike	62.2971
Auto	62.1281
Mini	62.0946
eBike	61.9600
Prime Plus	61.7053
Prime SUV	61.3852

13. Retrieve the total number of bookings made for each day of the week.

-- By the help of GPT

```
SELECT
    DAYNAME(STR_TO_DATE(Date, '%Y-%m-%d')) AS Day_of_Week,
    COUNT(*) AS Total_Bookings
FROM bookings
GROUP BY Day_of_Week
ORDER BY FIELD(Day_of_Week, 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday');
```

Day_of_Week	Total_Bookings
Sunday	13013
Monday	16729
Tuesday	16926
Wednesday	16434
Thursday	13236
Friday	13345
Saturday	13341

SQL Questions & Answers:

```
create database Ola;

use Ola;


SELECT * FROM ola.bookings;


# 1. Retrieve all successful bookings:

-- Creating View So that we can use it later(Easy Retrival)

create view SuccessfulBookings as

select * from bookings where Booking_Status='Success';


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

-- View

create view average_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:

-- View

create view cancelled_rides_by_customer as

select count(*) as cancelled_by_customers from bookings where Booking_Status='Canceled by Customer';


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

-- View

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:

-- View

create view cancelled_by_dri_due_to_per_and_car as

select count(*) as cancelled_by_drivers_due_to_personal_and_car_related from bookings where Canceled_Rides_by_Driver='Personal & Car related issue';

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

-- View

create view Max_Min_Rating_Prime_Sedan 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:

-- View

create view Payment_UPI as

select * from bookings where Payment_Method="UPI";

8. Find the average customer rating per vehicle type:

-- View

create view average_customer_rating_per_vehicle_type 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:

-- View

create view total_successful_booking_value as

select sum(Booking_Value) as total_successful_value from bookings where Booking_Status="Success";

10. List all incomplete rides along with the reason:

-- View

```
create view incomplete_rides_with_reason as

select Booking_ID,Incomplete_Rides_Reason from bookings where Incomplete_Rides="Yes";
```

11. Find the most popular pickup and drop locations based on the number of rides.

-- Most Popular Pickup Locations

-- View

```
create view MostPopularPickupLocations as

select Pickup_Location,count(*) as Ride_Count from bookings group by Pickup_Location order by Ride_Count Desc limit 5;
```

-- Most Popular Drop Locations

-- View

```
create view MostPopularDropLocations as

select Drop_Location,count(*) as Ride_Count from bookings group by Drop_Location order by Ride_Count Desc limit 5;
```

12. Get the percentage of successful bookings for each vehicle type.

-- View

```
create view SuccessfulBookingsPercentage as

select Vehicle_Type,count(case when Booking_Status='Success' then 1 end)/count(Booking_ID)*100 as Success_Percentage  from bookings group by Vehicle_Type order by Success_Percentage desc;
```

13. Retrieve the total number of bookings made for each day of the week.

-- View

```
create view TotalBookingsMadeEachDay as

SELECT

    DAYNAME(STR_TO_DATE(Date, '%Y-%m-%d')) AS Day_of_Week,

    COUNT(*) AS Total_Bookings
```

```
FROM bookings

GROUP BY Day_of_Week

ORDER BY FIELD(Day_of_Week, 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday',
'Friday', 'Saturday');
```

Retrieve All Answers (View)

```
# 1. Retrieve all successful bookings:

    select * from SuccessfulBookings;

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

    select * from average_ride_distance_for_each_vehicle;

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

    select * from cancelled_rides_by_customer;

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

    select * from top_5_customers;

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

    select * from cancelled_by_dri_due_to_per_and_car;

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

    select * from Max_Min_Rating_Prime_Sedan;

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

    select * from Payment_UPI;

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

    select * from average_customer_rating_per_vehicle_type;

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

    select * from total_successful_booking_value;

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

    select * from incomplete_rides_with_reason;

# 11. Find the most popular pickup and drop locations based on the number of rides.

    -- Most Popular Pickup Locations

    select * from MostPopularPickupLocations;

    -- Most Popular Drop Locations
```

select * from MostPopularDropLocations;

12. Get the percentage of successful bookings for each vehicle type.

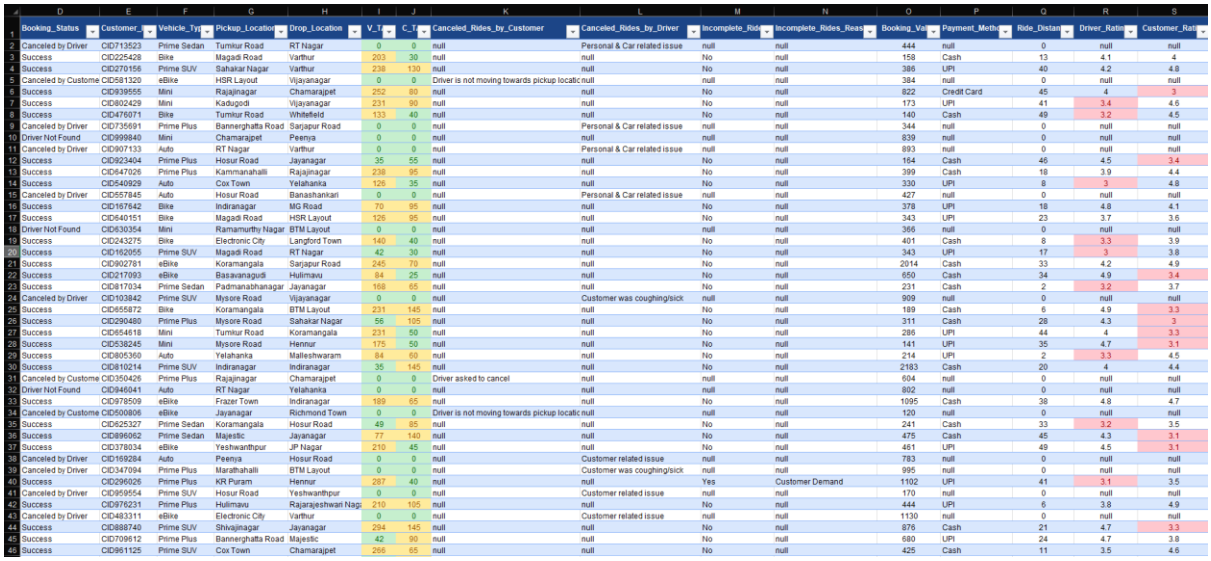
select * from SuccessfulBookingsPercentage;

13. Retrieve the total number of bookings made for each day of the week.

select * from TotalBookingsMadeEachDay;

Same Things Excel:

1. Retrieve all successful bookings (Applied some conditional formatting)



Booking_Status	Customer_I	Vehicle_Typ	Pickup_Location	Drop_Location	V_T	C_T	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Ride	Incomplete_Rides_Reas	Booking_Val	Payment_Meth	Ride_Distan	Driver_Ratin	Customer_Rati
Canceled by Driver	CID713523	Prime Sedan	Tumkur Road	RT Nagar	0	0	null	Personal & Car related issue	null	null	444	null	0	null	null
Success	CID225428	Bike	Magadi Road	Varthur	203	30	null	null	No	null	158	Cash	13	4.1	4
Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	null	null	No	null	386	UPI	40	4.2	4.8
Canceled by Custome	CID581320	eBike	HSR Layout	Vijayanagar	0	0	Driver is not moving towards pickup locatic	null	null	null	384	null	0	null	null
Success	CID939555	Mini	Rajajinagar	Chamarajpet	252	80	null	null	No	null	822	Credit Card	45	4	3
Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	null	null	No	null	173	UPI	41	3.4	4.6
Success	CID476071	Bike	Tumkur Road	Whitefield	133	40	null	null	No	null	140	Cash	49	3.2	4.5
Canceled by Driver	CID735691	Prime Plus	Bannerghatta Road	Sarjapur Road	0	0	null	Personal & Car related issue	null	null	344	null	0	null	null
Driver Not Found	CID999840	Mini	Chamarajpet	Peenya	0	0	null	null	null	null	839	null	0	null	null
Canceled by Driver	CID907133	Auto	RT Nagar	Varthur	0	0	null	Personal & Car related issue	null	null	893	null	0	null	null
Success	CID923404	Prime Plus	Hosur Road	Jayanagar	35	55	null	null	No	null	164	Cash	46	4.5	3.4
Success	CID647026	Prime Plus	Kammanahalli	Rajajinagar	238	95	null	null	No	null	399	Cash	18	3.9	4.4
Success	CID540929	Auto	Cox Town	Yelahanka	126	35	null	null	No	null	330	UPI	8	3	4.8
Canceled by Driver	CID557845	Auto	Hosur Road	Banashankari	0	0	null	Personal & Car related issue	null	null	427	null	0	null	null
Success	CID167642	Bike	Indiranagar	MG Road	70	95	null	null	No	null	378	UPI	18	4.8	4.1
Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	null	null	No	null	343	UPI	23	3.7	3.6
Driver Not Found	CID630354	Mini	Ramamurthy Nagar	BTM Layout	0	0	null	null	null	null	366	null	0	null	null
Success	CID243275	Bike	Electronic City	Langford Town	140	40	null	null	No	null	401	Cash	8	3.3	3.9
Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	null	null	No	null	343	UPI	17	3	3.8
Success	CID902781	eBike	Koramangala	Sarjapur Road	245	70	null	null	No	null	2014	Cash	33	4.2	4.9
Success	CID217093	eBike	Basavanagudi	Hulimavu	84	25	null	null	No	null	650	Cash	34	4.9	3.4
Success	CID817034	Prime Sedan	Padmanabhanagar	Jayanagar	168	65	null	null	No	null	231	Cash	2	3.2	3.7
Canceled by Driver	CID103842	Prime SUV	Mysore Road	Vijayanagar	0	0	null	Customer was coughing/sick	null	null	909	null	0	null	null
Success	CID655872	Bike	Koramangala	BTM Layout	231	145	null	null	No	null	189	Cash	6	4.9	3.3
Success	CID290480	Prime Plus	Mysore Road	Sahakar Nagar	56	105	null	null	No	null	311	Cash	28	4.3	3
Success	CID654618	Mini	Tumkur Road	Koramangala	231	50	null	null	No	null	286	UPI	44	4	3.3
Success	CID538245	Mini	Mysore Road	Hennur	175	50	null	null	No	null	141	UPI	35	4.7	3.1
Success	CID805360	Auto	Yelahanka	Malleshwaram	84	60	null	null	No	null	214	UPI	2	3.3	4.5
Success	CID810214	Prime SUV	Indiranagar	Indiranagar	35	145	null	null	No	null	2183	Cash	20	4	4.4
Canceled by Custome	CID350426	Prime Plus	Rajajinagar	Chamarajpet	0	0	Driver asked to cancel	null	null	null	604	null	0	null	null
Driver Not Found	CID946041	Auto	RT Nagar	Yelahanka	0	0	null	null	null	null	802	null	0	null	null
Success	CID978509	eBike	Frazer Town	Indiranagar	189	65	null	null	No	null	1095	Cash	38	4.9	4.7
Canceled by Custome	CID500806	eBike	Jayanagar	Richmond Town	0	0	Driver is not moving towards pickup locatic	null	null	null	120	null	0	null	null
Success	CID625327	Prime Sedan	Koramangala	Hosur Road	49	85	null	null	No	null	241	Cash	33	3.2	3.5
Success	CID896062	Prime Sedan	Majestic	Jayanagar	77	140	null	null	No	null	475	Cash	45	4.3	3.1
Success	CID378034	eBike	Yeshwanthpur	JP Nagar	210	45	null	null	No	null	461	UPI	49	4.5	3.1
Canceled by Driver	CID169284	Auto	Peenya	Hosur Road	0	0	null	Customer related issue	null	null	783	null	0	null	null
Canceled by Driver	CID347094	Prime Plus	Marathahalli	BTM Layout	0	0	null	Customer was coughing/sick	null	null	995	null	0	null	null
Success	CID296026	Prime Plus	KR Puram	Hennur	287	40	null	null	Yes	Customer Demand	1102	UPI	41	3.1	3.5
Canceled by Driver	CID959554	Prime SUV	Hosur Road	Yeshwanthpur	0	0	null	Customer related issue	null	null	170	null	0	null	null
Success	CID976231	Prime Plus	Hulimavu	Rajarajeshwari Nag	210	105	null	null	No	null	444	UPI	6	3.8	4.9
Canceled by Driver	CID483311	eBike	Electronic City	Varthur	0	0	null	Customer related issue	null	null	1130	null	0	null	null
Success	CID888740	Prime SUV	Shivajinagar	Jayanagar	294	145	null	null	No	null	876	Cash	21	4.7	3.3
Success	CID709612	Prime Plus	Bannerghatta Road	Majestic	42	90	null	null	No	null	680	UPI	24	4.7	3.8
Success	CID961125	Prime SUV	Cox Town	Chamarajpet	266	65	null	null	No	null	425	Cash	11	3.5	4.6

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

=AVERAGEIF(July!F:F,Analysis!F2,July!Q:Q)

Vehicle_Type	Avg_Distance
Prime Sedan	15.76
Bike	15.53
Prime SUV	15.27
eBike	15.58
Mini	15.51
Prime Plus	15.45
Auto	6.24

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

=COUNTIF(July!D:D,"=Canceled by Customer")

Canceled by Customer
10499

4. List the top 5 customers who booked the highest number of rides: (Used Pivot Table)

Top 5 customers	
Customer_ID	total_rides
CID954071	5
CID539191	4
CID782883	4
CID199017	4
CID189965	4

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

=COUNTIF(July!L:L,"=Personal & Car related issue")

Rides cancelled by drivers due to personal and car-related issues
6542

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

=MAXIFS(July!R:R,July!F:F,"=Prime Sedan")

=MINIFS(July!R:R,July!F:F,"=Prime Sedan")

Prime Sedan Driver Rating	
Max	Min
5	3

7. Retrieve all rides where payment was made using UPI: (Used Filter)

Booking_ID	Booking_Status	Customer	Vehicle_T	Pickup_Location	Drop_Location	V_	C_	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Ri	Incomplete_Rides_Reas	Booking_V	Payment_Meth	Ride_Dista	Driver_Ratin	Customer_Rat
CNR298235787	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	null	null	No	null	386	UPI	40	4.2	4.8
CNR878717788	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	null	null	No	null	173	UPI	41	3.4	4.6
CNR452447211	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	null	null	No	null	330	UPI	8	3	4.8
CNR918160203	Success	CID167642	Bike	Indiranagar	MG Road	70	95	null	null	No	null	378	UPI	18	4.8	4.1
CNR889091854	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	null	null	No	null	343	UPI	23	3.7	3.6
CNR997592528	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	null	null	No	null	343	UPI	17	3	3.8
CNR444392190	Success	CID654618	Mini	Tumkur Road	Koramangala	231	50	null	null	No	null	286	UPI	44	4	3.3
CNR719430329	Success	CID538245	Mini	Mysore Road	Hennur	175	50	null	null	No	null	141	UPI	35	4.7	3.1
CNR649400506	Success	CID805360	Auto	Yelahanka	Malleshwaram	84	60	null	null	No	null	214	UPI	2	3.3	4.5
CNR714227986	Success	CID378034	eBike	Yeshwanthpur	JP Nagar	210	45	null	null	No	null	461	UPI	49	4.5	3.1

8. Find the average customer rating per vehicle type:

=AVERAGEIF(July!F:F,Analysis!C13,July!S1)

Vehicle_Type	AverageCustomer_Rating
Prime Sedan	4.001588656
Bike	3.996540362
Prime SUV	3.994549659
eBike	4.007321077
Mini	4.009238053
Prime Plus	4.006017255
Auto	3.997190518

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

=SUMIF(July!D:D,"=Success",July!O:O)

Total_successful_booking value
35080467

10. List all incomplete rides along with the reason (Used Filter)

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
CNR9952584604	Customer Demand
CNR5433575259	Vehicle Breakdown
CNR3575066041	Vehicle Breakdown

11. Find the most popular pickup and drop locations based on the number of rides.

-- Most Popular Pickup Locations (Used Pivot Table)

Most Popular Pickup Locations	
Pickup_Location	Ride Count
Banashankari	2201
Yeshwanthpur	2139
RT Nagar	2135
Indiranagar	2133
Sahakar Nagar	2126

-- Most Popular Drop Locations (Used Pivot Table)

Most Popular Drop Locations	
Drop_Location	Ride Count
Peenya	2159
Mysore Road	2148
MG Road	2128
Hennur	2120
HSR Layout	2117

12. Get the percentage of successful bookings for each vehicle type.

=COUNTIFS(July!D:D,"=Success",July!F:F,Analysis!F15)/COUNTIF(July!F:F,Analysis!F15)*100

Vehicle_Type	Success_Percentage
Prime Sedan	63.04362439
Prime Sedan	61.38519277
Bike	63.04362439
Auto	61.7053104
Mini	62.09455745
eBike	62.12809217
Prime Plus	61.9600432
Prime SUV	62.29709453

Also Done with Pivot Table: (=M5/COUNTIF(July!F:F,Analysis!L10) * 100)

Percentage of successful bookings for each vehicle type		
Vehicle_Type	Successful Bookings	Success_Percentage
Prime Sedan	9379	63.04362439
Bike	9134	62.29709453
Auto	9167	62.12809217
Mini	9036	62.09455745
eBike	9180	61.9600432
Prime Plus	9075	61.7053104
Prime SUV	8996	61.38519277

13. Retrieve the total number of bookings made for each day of the week.

=TEXT([@Date],"dddd") (And Used Pivot Table)

Bookings made for each day of the week	
Day_of_Week	Total_Bookings
Sunday	13013
Monday	16729
Tuesday	16926
Wednesday	16434
Thursday	13236
Friday	13345
Saturday	13341

❖ Analysis Sheet:

Columns
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
Booking_Value
Payment_Method
Ride_Distance
Driver_Ratings
Customer_Rating

Canceled by Customer
10499

Rides cancelled by drivers due to personal and car-related issues
6542

Total_successful_booking_value
35080467

Vehicle_Type	AverageCustomer_Rating
Prime Sedan	4.001588656
Bike	3.996540362
Prime SUV	3.994549659
eBike	4.007321077
Mini	4.009238053
Prime Plus	4.006017255
Auto	3.997190518

Vehicle_Type	Avg_Distance
Prime Sedan	15.76
Bike	15.53
Prime SUV	15.27
eBike	15.58
Mini	15.51
Prime Plus	15.45
Auto	6.24

Prime Sedan Driver Rating	
Max	Min
5	3

Vehicle_Type	Success_Percentage
Prime Sedan	63.04362439
Prime Sedan	61.38519277
Bike	63.04362439
Auto	61.7053104
Mini	62.09455745
eBike	62.12809217
Prime Plus	61.9600432
Prime SUV	62.29709453

From Pivot Table

Top 5 customers	
Customer_ID	total_rides
CID954071	5
CID539191	4
CID782883	4
CID199017	4
CID189965	4

Most Popular Pickup Locations	
Pickup_Location	Ride Count
Banashankari	2201
Yeshwanthpur	2139
RT Nagar	2135
Indiranagar	2133
Sahakar Nagar	2126

Most Popular Drop Locations	
Drop_Location	Ride Count
Peenya	2159
Mysore Road	2148
MG Road	2128
Hennur	2120
HSR Layout	2117

Percentage of successful bookings for each vehicle type		
Vehicle_Type	Successful Bookings	Success_Percentage
Prime Sedan	9379	63.04362439
Bike	9134	62.29709453
Auto	9167	62.12809217
Mini	9036	62.09455745
eBike	9180	61.9600432
Prime Plus	9075	61.7053104
Prime SUV	8996	61.38519277

Bookings made for each day of the week	
Day_of_Week	Total_Bookings
Sunday	13013
Monday	16729
Tuesday	16926
Wednesday	16434
Thursday	13236
Friday	13345
Saturday	13341

❖ Pivot Table:

Top 5 customers	
Row Labels	Count of Booking_ID
CID954071	5
CID539191	4
CID782883	4
CID199017	4
CID189965	4
CID201733	4
CID635963	4
CID263459	4
CID836942	4
CID266327	4
CID969725	4
CID268274	4
CID465260	4
CID288207	4
CID543568	4
CID309168	4
CID779459	4
CID329193	4
CID819034	4
CID340854	4
CID952434	4
CID356460	4
CID966929	4
CID381415	4
CID980727	4
CID387617	4
CID460299	4
Grand Total	109

Most Popular Pickup Locations	
Row Labels	Count of Pickup_Location
Banashankari	2201
Indiranagar	2133
RT Nagar	2135
Sahakar Nagar	2126
Yeshwanthpur	2139
Grand Total	10734

successful bookings for each vehicle	
Booking_Status	Success
Row Labels	Count of Booking_ID
Prime Sedan	9379
eBike	9180
Auto	9167
Bike	9134
Prime Plus	9075
Mini	9036
Prime SUV	8996
Grand Total	63967

Most Popular Drop Locations	
Row Labels	Count of Drop_Location
Peenya	2159
Mysore Road	2148
MG Road	2128
Hennur	2120
HSR Layout	2117
Grand Total	10672

Bookings made for each day of the	
Row Labels	Count of Booking_ID
0	13013
1	16729
2	16926
3	16434
4	13236
5	13345
6	13341
Grand Total	103024

Total bookings per vehicle type	
Row Labels	Count of Booking_ID
Prime Sedan	14877
eBike	14816
Auto	14755
Prime Plus	14707
Bike	14662
Prime SUV	14655
Mini	14552
(blank)	
Grand Total	103024

Row Labels	Count of Booking_ID
Canceled by Customer	10.19%
Canceled by Driver	17.89%
Driver Not Found	9.83%
Success	62.09%
Grand Total	100.00%

Row Labels	Count of Booking_ID
Auto	14755
Canceled by Customer	1503
Canceled by Driver	2675
Driver Not Found	1410
Success	9167
Bike	14662
Canceled by Customer	1537
Canceled by Driver	2559
Driver Not Found	1432
Success	9134
eBike	14816
Canceled by Customer	1512
Canceled by Driver	2694
Driver Not Found	1430
Success	9180
Mini	14552
Canceled by Customer	1505
Canceled by Driver	2584
Driver Not Found	1427
Success	9036
Prime Plus	14707
Canceled by Customer	1474
Canceled by Driver	2683
Driver Not Found	1475
Success	9075
Prime Sedan	14877
Canceled by Customer	1470
Canceled by Driver	2591
Driver Not Found	1437
Success	9379
Prime SUV	14655
Canceled by Customer	1498
Canceled by Driver	2648
Driver Not Found	1513
Success	8996
Grand Total	103024

Booking_Status

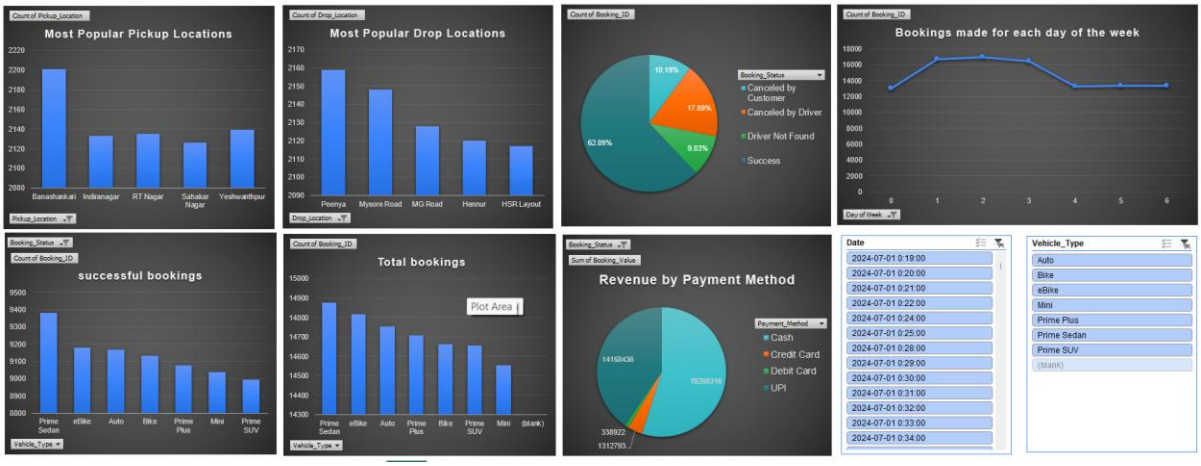
- Canceled by Customer
- Canceled by Driver
- Driver Not Found
- Success

Vehicle_Type

- Auto
- Bike
- eBike
- Mini
- Prime Plus
- Prime Sedan
- Prime SUV

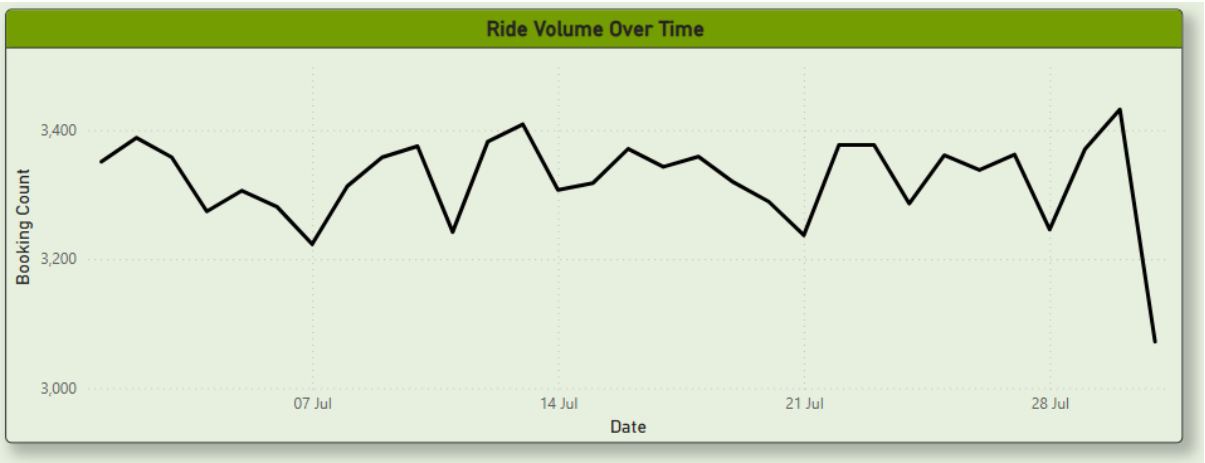
Revenue by Payment Method	
Booking_Status	Success
Row Labels	Sum of Booking_Value
Cash	19260316
Credit Card	1312793
Debit Card	338922
UPI	14168436
Grand Total	35080467

❖ Charts:

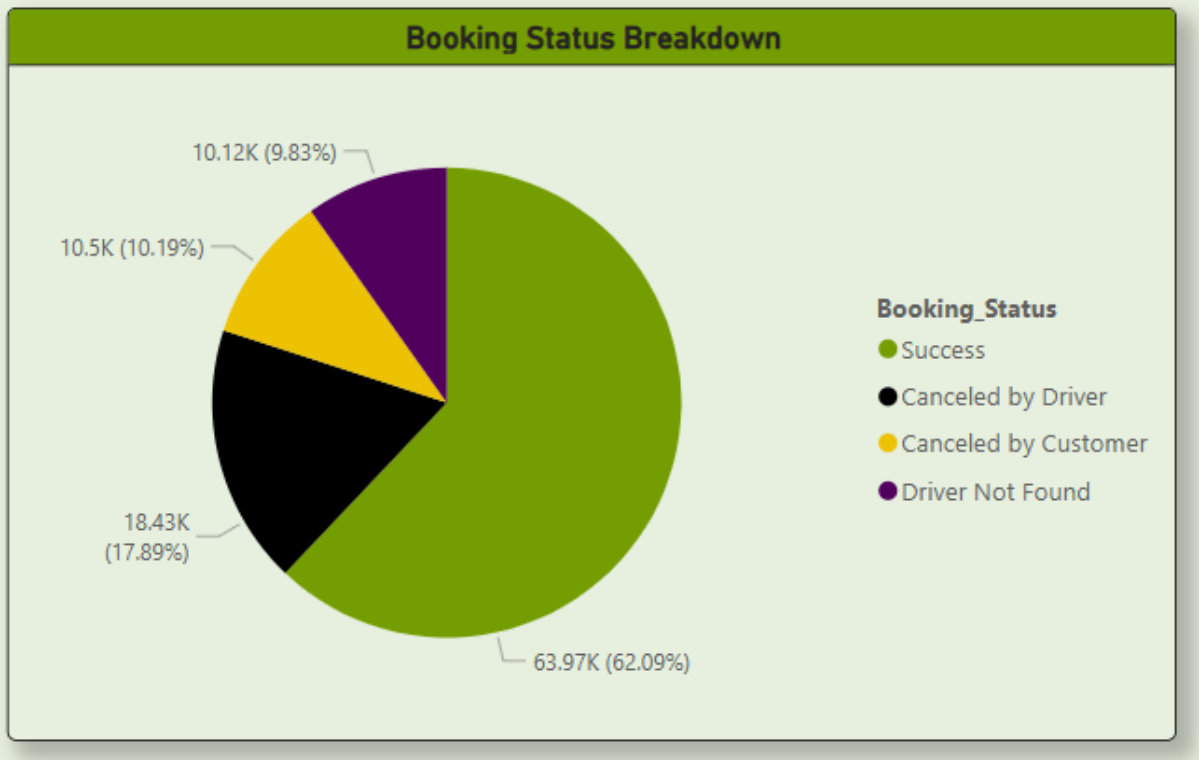

Most Popular Pickup Locations
Banashankari
Indiranagar
RT Nagar
Sahakar Nagar
Yeshwanthpur
Most Popular Drop Locations
Peenya
Mysore Road
MG Road
Hennur
HSR Layout
10.19%
17.89%
9.83%
62.09%
Booking_Status
Canceled by Customer
Canceled by Driver
Driver Not Found
Success
Bookings made for each day of the week
successful bookings
Total bookings
Plot Area
Revenue by Payment Method
Cash
Credit Card
Debit Card
UPI
14168436
338922
1312793
Date
2024-07-01 0:19:00
2024-07-01 0:20:00
2024-07-01 0:21:00
2024-07-01 0:22:00
2024-07-01 0:24:00
2024-07-01 0:25:00
2024-07-01 0:28:00
2024-07-01 0:29:00
2024-07-01 0:30:00
2024-07-01 0:31:00
2024-07-01 0:32:00
2024-07-01 0:33:00
2024-07-01 0:34:00
Vehicle_Type
Auto
Bike
eBike
Mini
Prime Plus
Prime Sedan
Prime SUV
(blank)

Power BI Questions:

1. Ride Volume Over Time



2. Booking Status Breakdown



3. Vehicle Types by Ride Distance

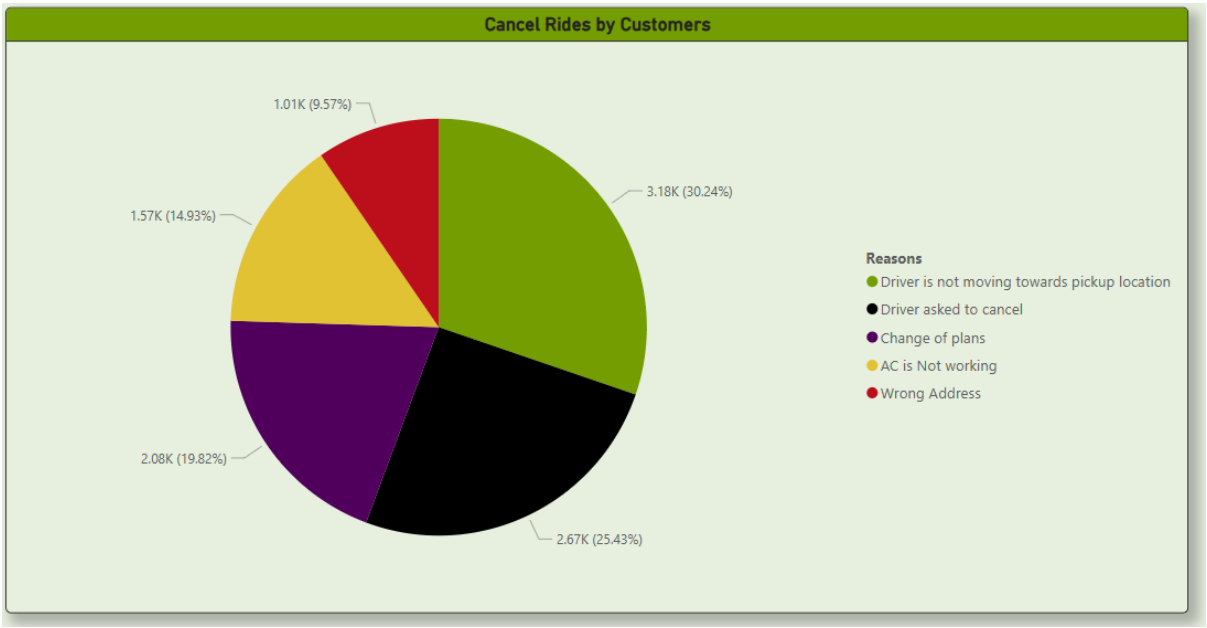
Vehicle Type	Total Booking Value	Success Booking Value	Avg. Distance Travelled	Total Distance Travelled
Prime Sedan	8.30M	5.22M	25.01	235K
Prime SUV	7.93M	4.88M	24.88	224K
Prime Plus	8.05M	5.02M	25.03	227K
Mini	7.99M	4.89M	24.98	226K
Auto	8.09M	5.05M	10.04	92K
Bike	7.99M	4.97M	24.93	228K
E-Bike	8.18M	5.05M	25.15	231K

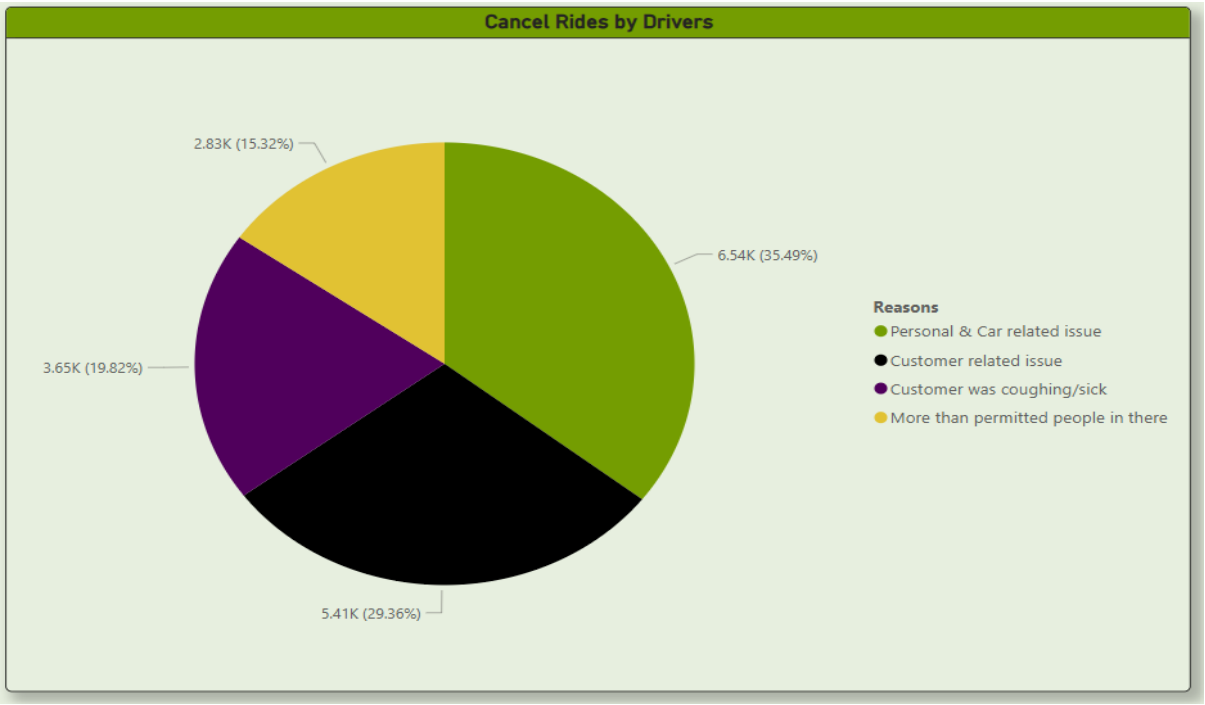
4. Average Customer Ratings by Vehicle Type

Customer Ratings

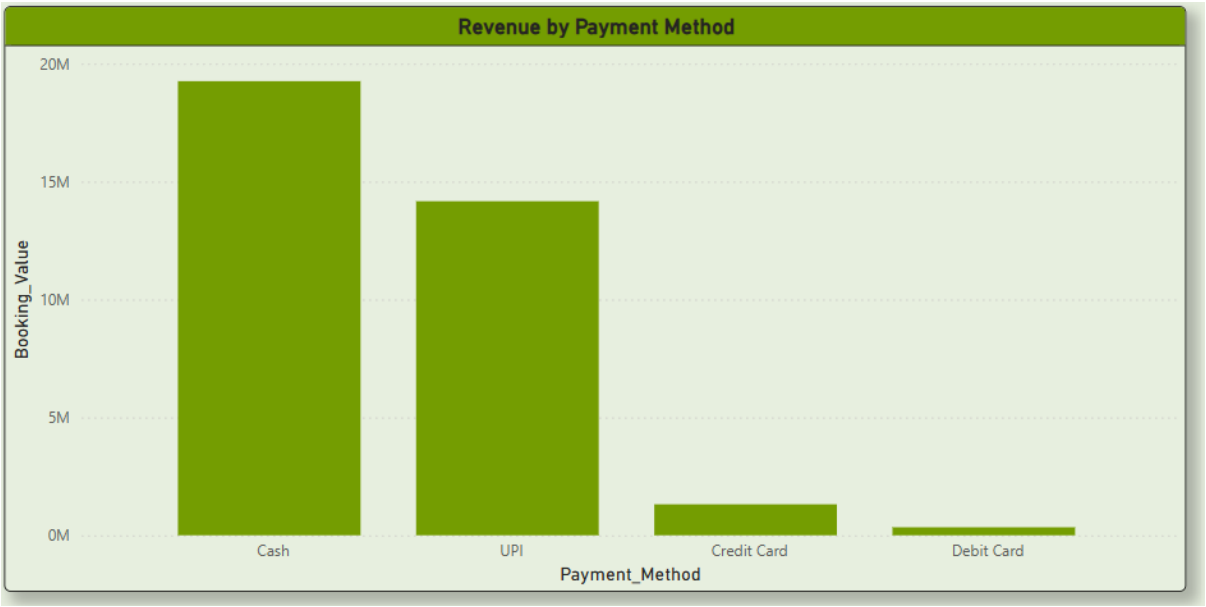
Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
4.00	4.00	4.01	4.00	4.00	3.99	3.99

5. cancelled Rides Reasons





6. Revenue by Payment Method

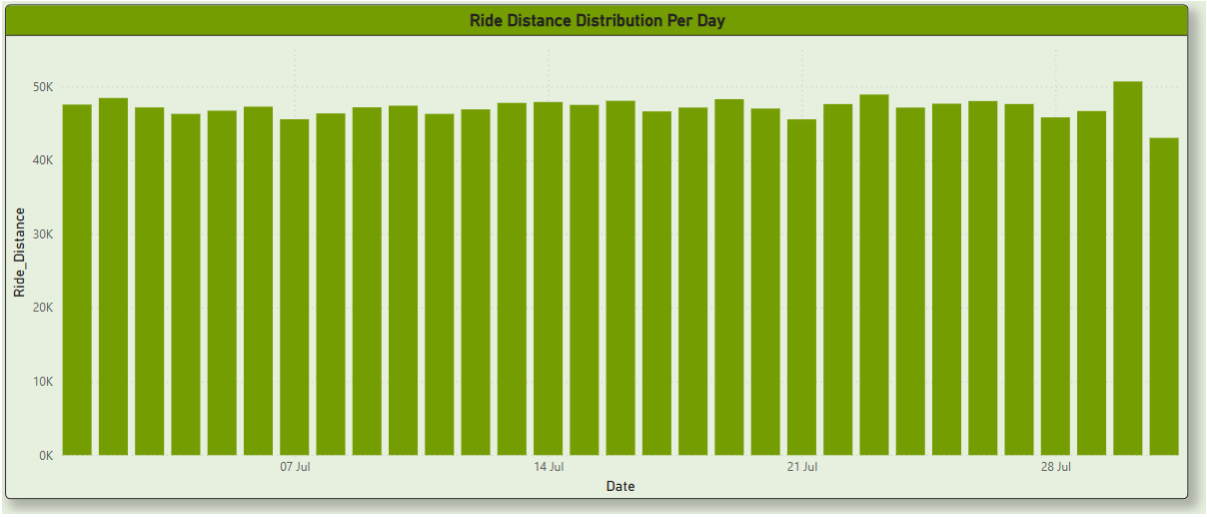


7. Top 5 Customers by Total Booking Value

Top 5 Customers

Customer_ID	Sum of Booking_Value
CID785112	8025
CID308763	6281
CID734557	6177
CID353074	6110
CID836942	6019
Total	**32612**

8. Ride Distance Distribution Per Day



9. Driver Ratings Distribution

Driver Ratings

Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
3.99	4.01	4.00	3.99	4.00	3.98	4.01

10.Customer vs. Driver Ratings

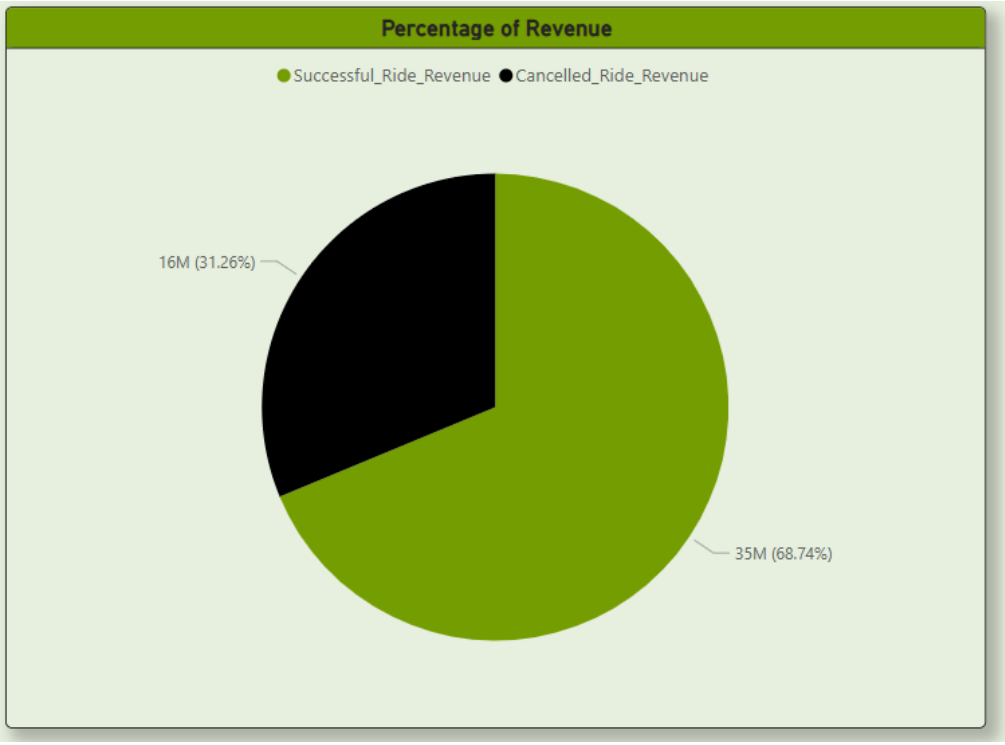
Driver Ratings

Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
3.99	4.01	4.00	3.99	4.00	3.98	4.01

Customer Ratings

Prime Sedan	Prime SUV	Prime Plus	Mini	Auto	Bike	E-Bike
4.00	4.00	4.01	4.00	4.00	3.99	3.99

11.Revenue Comparison Between Successful and Cancelled Rides

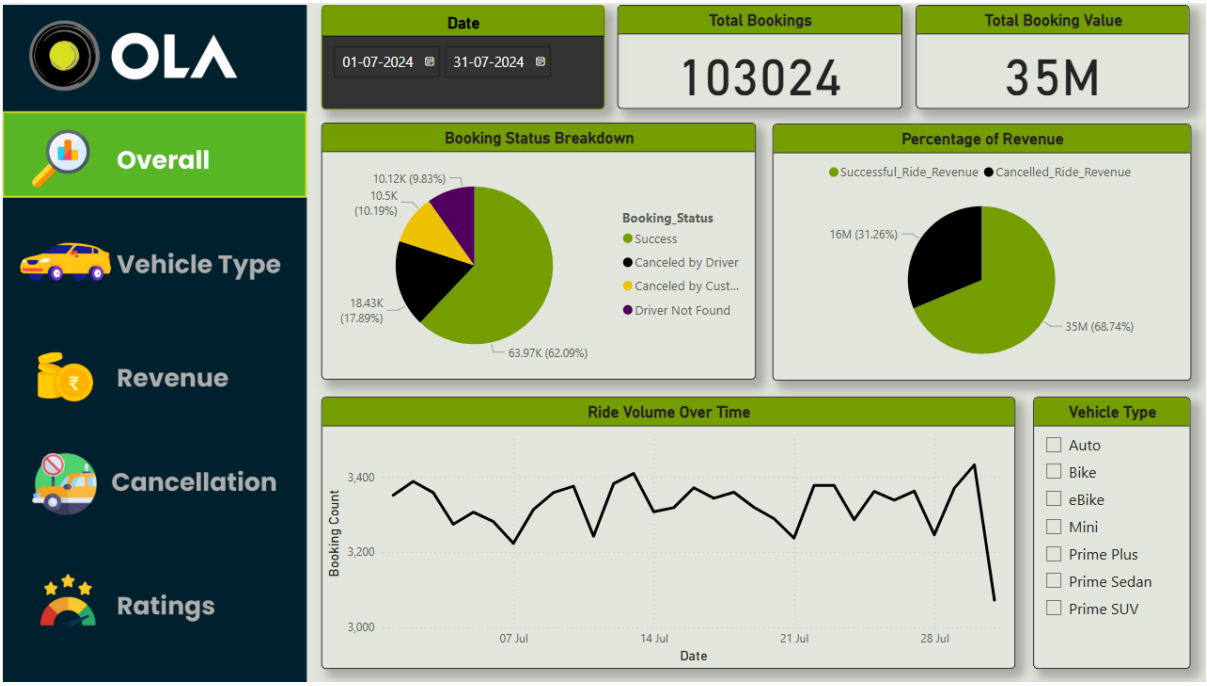


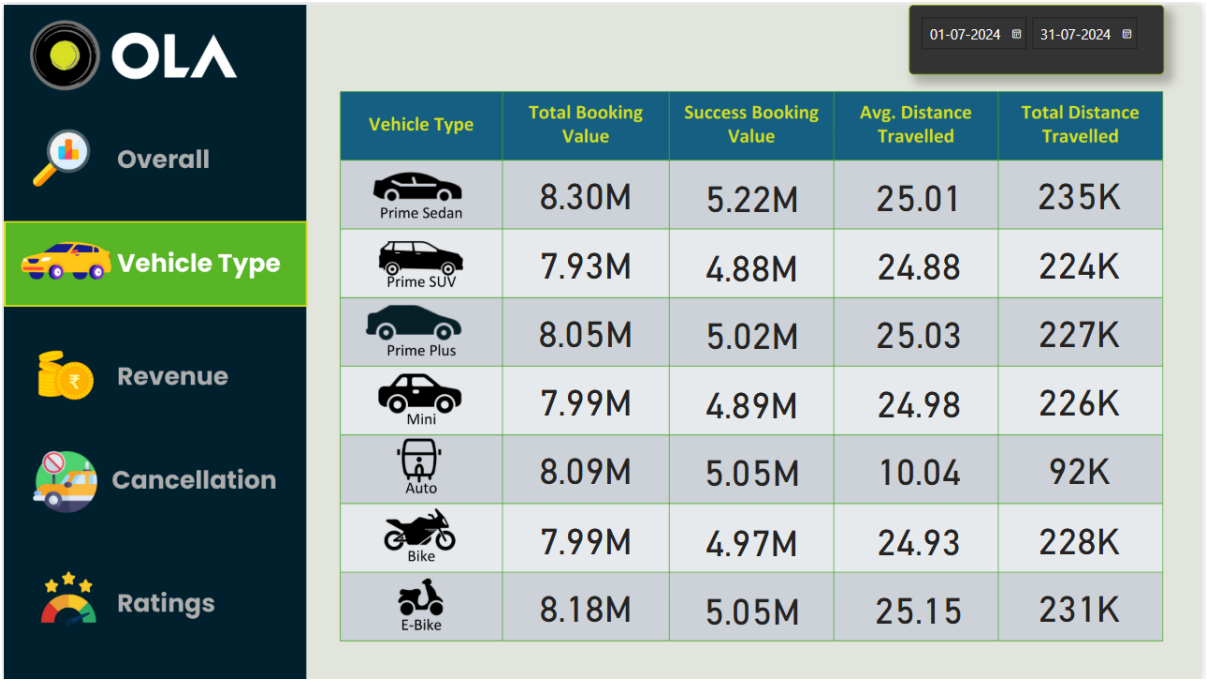
Segregation of the views:

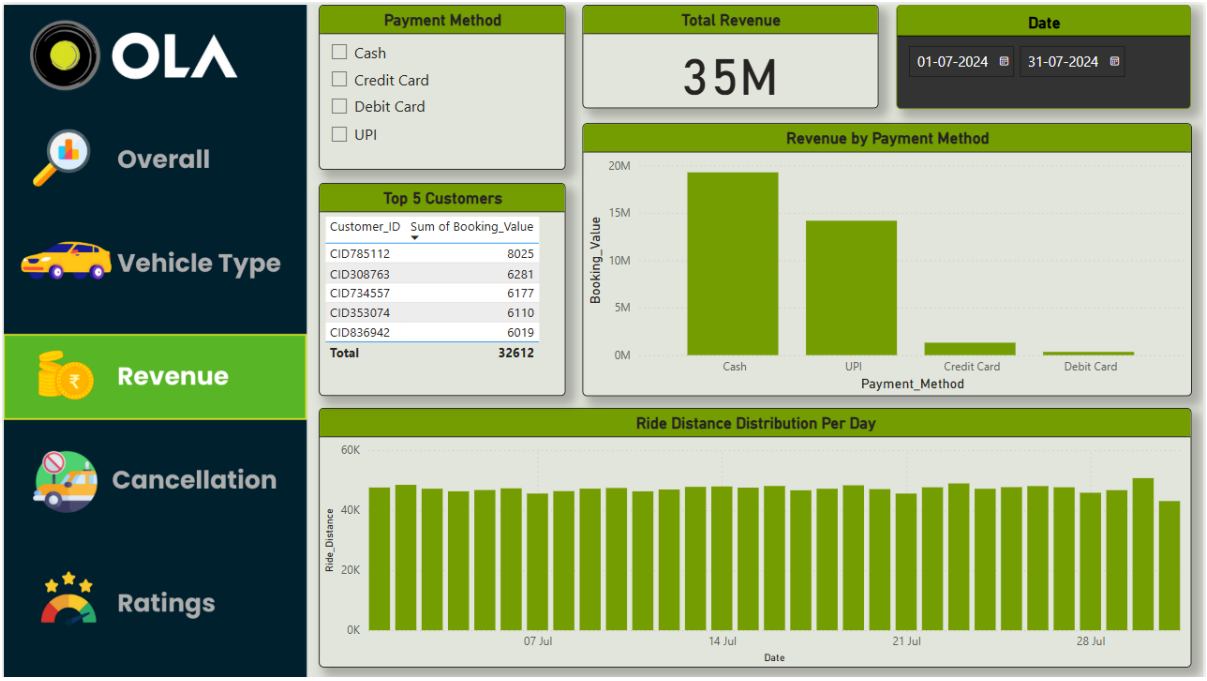
1. **Overall**
    - Ride Volume Over Time
    - Booking Status Breakdown
    - Revenue Comparison Between Successful and Cancelled Rides
2. **Vehicle Type**
    - Vehicle Types by Ride Distance
3. **Revenue**
    - Revenue by Payment Method
    - Top 5 Customers by Total Booking Value
    - Ride Distance Distribution Per Day
4. **Cancellation**
    - Cancelled Rides Reasons (Customer)
    - Cancelled Rides Reasons (Drivers)

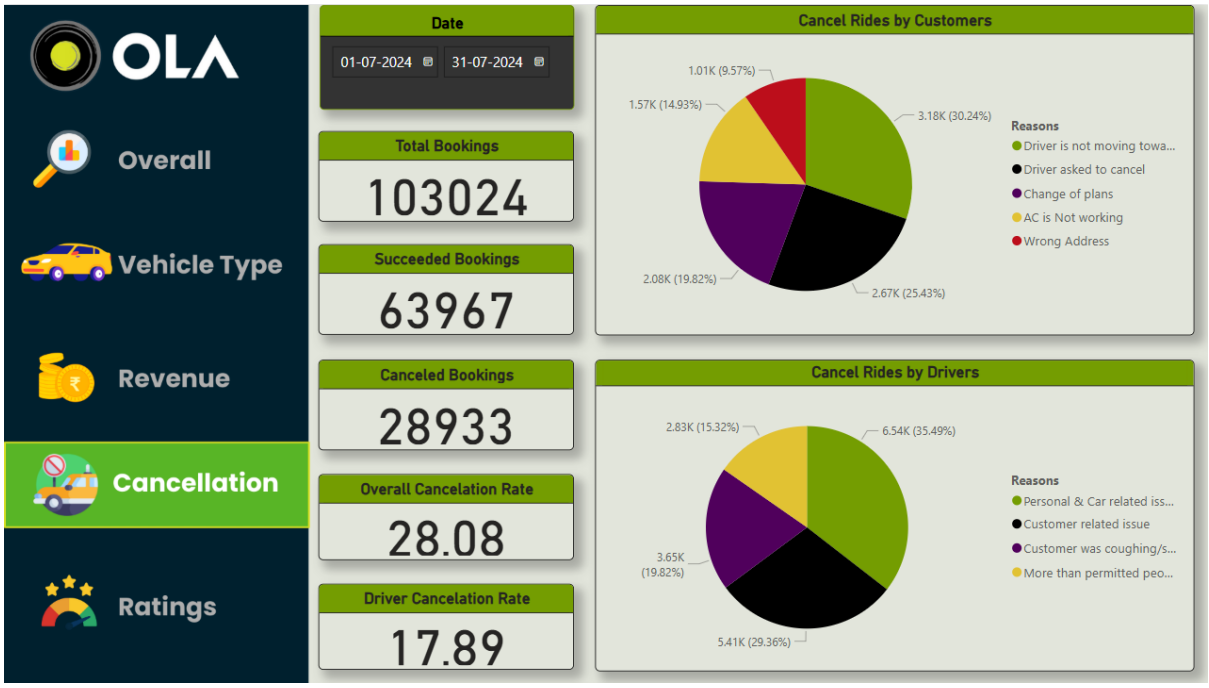
5. **Ratings**
    - Driver Ratings
    - Customer Ratings

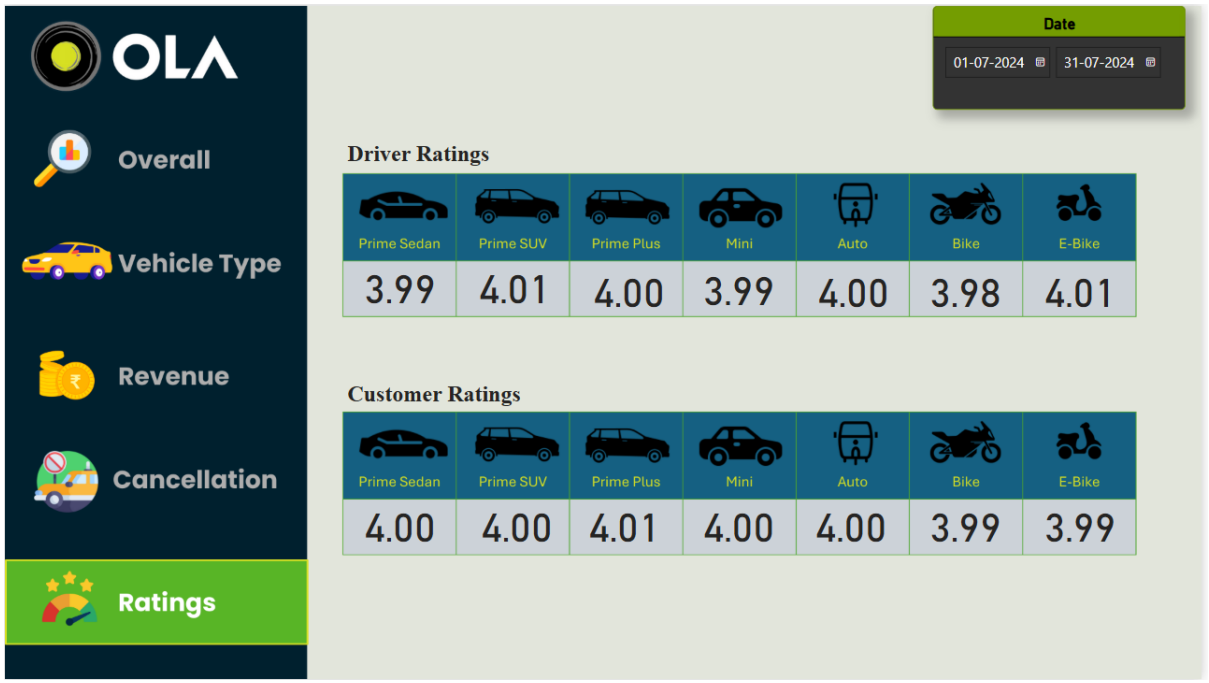
Dashboard:






OLA
Overall
Vehicle Type
Revenue
Cancellation
Ratings
Payment Method
Cash
Credit Card
Debit Card
UPI
Total Revenue
35M
Date
01-07-2024
31-07-2024
Top 5 Customers
Customer_ID
Sum of Booking_Value
CID785112 8025
CID308763 6281
CID734557 6177
CID353074 6110
CID836942 6019
Total 32612
Revenue by Payment Method
Booking_Value
20M
15M
10M
5M
0M
Cash
UPI
Credit Card
Debit Card
Payment_Method
Ride Distance Distribution Per Day
Ride_Distance
60K
40K
20K
0K
07 Jul
14 Jul
21 Jul
28 Jul
Date


OLA
Overall
Vehicle Type
Revenue
Cancellation
Ratings
Date
01-07-2024
31-07-2024
Total Bookings
103024
Succeeded Bookings
63967
Canceled Bookings
28933
Overall Cancelation Rate
28.08
Driver Cancelation Rate
17.89
Cancel Rides by Customers
1.01K (9.57%)
1.57K (14.93%)
3.18K (30.24%)
2.08K (19.82%)
2.67K (25.43%)
Reasons
Driver is not moving towa...
Driver asked to cancel
Change of plans
AC is Not working
Wrong Address
Cancel Rides by Drivers
2.83K (15.32%)
6.54K (35.49%)
3.65K (19.82%)
5.41K (29.36%)
Reasons
Personal & Car related iss...
Customer related issue
Customer was coughing/s...
More than permitted peo...


OLA
Overall
Vehicle Type
Revenue
Cancellation
Ratings
Date
01-07-2024
31-07-2024
Driver Ratings
Prime Sedan
Prime SUV
Prime Plus
Mini
Auto
Bike
E-Bike
3.99
4.01
4.00
3.99
4.00
3.98
4.01
Customer Ratings
Prime Sedan
Prime SUV
Prime Plus
Mini
Auto
Bike
E-Bike
4.00
4.00
4.01
4.00
4.00
3.99
3.99