



# ***OLA DATA ANALYST PROJECT***

## ***BY USING EXCEL , SQL , POWER BI***

BY - KARTIK JAIN

# OLA DATA ANALYST PROJECT

## ***INTRODUCTION***

My name is Kartik Jain, a passionate data analyst and enthusiast eager to explore and solve business problems. I recently completed the OLA Data Analyst Project using Excel, SQL, and Power BI. This project demonstrates my ability to work with large datasets, design SQL queries, create dashboards, and solve business problems.

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### ***AIM OF THE PROJECT***

The aim of this project is to answer all questions, uncover insights, and provide visual representations for easy understanding. In this project, I use Excel, SQL, and Power BI. Excel is utilized for data walkthroughs from 50,000 rows and for removing duplicates. SQL is employed for data extraction and preparation. Finally, Power BI is used to create interactive dashboards, transforming insights into visually appealing and accessible stories.

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# OLA DATA ANALYST PROJECT

## ***SQL QUESTIONS:***

1. Retrieve all successful bookings:
2. Find the average ride distance for each vehicle type:
3. Get the total number of cancelled rides by customers:
4. List the top 5 customers who booked the highest number of rides:
5. Get the number of rides cancelled by drivers due to personal and car-related issues:
6. Find the maximum and minimum driver ratings for Prime Sedan bookings:
7. Retrieve all rides where payment was made using UPI:
8. Find the average customer rating per vehicle type:
9. Calculate the total booking value of rides completed successfully:
10. List all incomplete rides along with the reason:

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# OLA DATA ANALYST PROJECT

```
1 ●  create database ola;
2      -- CREATE TABLE
3 ●  CREATE TABLE bookings
4   ⊖    (
5       booking_Date varchar(255), booking_Time varchar(255),
6       Booking_ID varchar(255), Booking_Status varchar(255),
7       Customer_ID varchar(255), Vehicle_Type varchar(255),
8       Pickup_Location varchar(255), Drop_Location varchar(255),
9       V_TAT int, C_TAT int,
10      Canceled_Rides_by_Customer varchar(255),
11      Canceled_Rides_by_Driver varchar(255),
12      Incomplete_Rides varchar(255),
13      Incomplete_Rides_Reason varchar(255),
14      Booking_Value int, Payment_Method varchar(255),
15      Ride_Distance int, Driver_Ratings float,
16      Customer_Rating int );
```

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# OLA DATA ANALYST PROJECT

-- 1. Retrieve all successful bookings:

SELECT

\*

FROM

ola.bookings

WHERE

Booking\_Status = 'Success';

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	booking_Date	booking_Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Canceled_Ric
▶	25-07-2024 22:20	22:20:00	CNR2940424040	Success	CID225428	Bike	Magadi Road	Varthur	203	30	NULL
	30-07-2024 19:59	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL
	02-07-2024 09:02	09:02:00	CNR1797421769	Success	CID939555	Mini	Rajajinagar	Chamarajpet	252	80	NULL
	13-07-2024 04:42	04:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL
	23-07-2024 09:51	09:51:00	CNR3612067560	Success	CID476071	Bike	Tumkur Road	Whitefield	133	40	NULL
	29-07-2024 23:33	23:33:00	CNR4787583516	Success	CID923404	Prime Plus	Hosur Road	Jayanagar	35	55	NULL
	26-07-2024 04:03	04:03:00	CNR7943634301	Success	CID647026	Prime Plus	Kammanahalli	Rajajinagar	238	95	NULL
	27-07-2024 13:18	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	NULL
	16-07-2024 09:54	09:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL
	02-07-2024 10:25	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	NULL
	05-07-2024 23:42	23:42:00	CNR3196156650	Success	CID243275	Bike	Electronic City	Langford Town	140	40	NULL
	09-07-2024 11:11	11:11:00	CNR9975925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	NULL
	12-07-2024 14:44	14:44:00	CNR1591113431	Success	CID902781	eBike	Koramangala	Sarjapur Road	245	70	NULL
	11-07-2024 20:42	20:42:00	CNR3650331573	Success	CID217093	eBike	Basavanagudi	Hulimavu	84	25	NULL
	08-07-2024 22:33	22:33:00	CNR6013805089	Success	CID817034	Prime Sedan	Padmanabhan...	Jayanagar	168	65	NULL
	03-07-2024 18:20	18:20:00	CNR9832070187	Success	CID655872	Bike	Koramangala	BTM Layout	231	145	NULL
	03-07-2024 21:17	21:17:00	CNR5620539253	Success	CID290480	Prime Plus	Mysore Road	Sahakar Nagar	56	105	NULL
	19-07-2024 21:18	21:18:00	CNR4443921904	Success	CID654618	Mini	Tumkur Road	Koramangala	231	50	NULL
	25-07-2024 03:44	03:44:00	CNR7194303296	Success	CID538245	Mini	Mysore Road	Hennur	175	50	NULL
	15-07-2024 17:11	17:11:00	CNR6494005067	Success	CID805360	Auto	Yelahanka	Malleshwaram	84	60	NULL

# OLA DATA ANALYST PROJECT

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

SELECT

    Vehicle\_Type, AVG(Ride\_Distance)

FROM

    ola.bookings

GROUP BY Vehicle\_Type;

	Vehicle_Type	Avg(Ride_Distance)
▶	Prime Sedan	15.6053
	Bike	15.8508
	Prime SUV	15.2536
	eBike	15.7181
	Mini	15.5066
	Prime Plus	15.2579
	Auto	6.1742



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

```
SELECT
    COUNT(Booking_Status)
FROM
    bookings
WHERE
    Booking_Status = 'Canceled by Customer';
```

COUNT(Booking_Status)
5026

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X X X

## OLA DATA ANALYST PROJECT

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

```
SELECT
  Customer_ID, COUNT(Booking_ID) AS total_booking
FROM
  bookings
GROUP BY Customer_ID
ORDER BY total_booking DESC
LIMIT 5; ;
```

	Customer_ID	total_booking
▶	CID219102	3
	CID189965	3
	CID266327	3
	CID328887	3
	CID225210	3

# OLA DATA ANALYST PROJECT

```
-- 5. Get the number of rides cancelled by drivers due to personal and car-related issues:  
SELECT  
    COUNT(*)  
FROM  
    bookings  
WHERE  
    Booking_Status = 'Canceled by Driver'  
        AND Canceled_Rides_by_Driver = 'Personal & Car related issue';
```

X X X	COUNT(*)
X X X	3087
X X X	
X X X	



## OLA DATA ANALYST PROJECT

```
49      -- 6. Find the maximum and minimum driver ratings for Prime Sedan bookings:  
50 •   SELECT  
51       MAX(Driver_Ratings) AS max_rating,  
52       MIN(Driver_Ratings) AS min_rating  
53   FROM  
54       bookings  
55   WHERE  
56       Vehicle_Type = 'Prime Sedan';
```

The screenshot shows a database query results window. At the top, there are several buttons: 'Result Grid' (selected), 'Filter Rows:' (with a search bar), 'Export:' (with a file icon), and 'Wrap Cell Content:' (with a text icon). Below these buttons is a table with two columns: 'max\_rating' and 'min\_rating'. The table has two rows. The first row contains the column headers, and the second row contains the values 5 and 3 respectively.

	max_rating	min_rating
▶	5	3

# OLA DATA ANALYST PROJECT

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

SELECT

\* X X X X

FROM X X X X

bookings X X X X

WHERE X X X X

Payment\_Method = 'upi'; X X X X

booking_Date	booking_Time	Booking_ID	Booking_Status	Customer_ID	Vehide_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT
30-07-2024 19:59	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130
13-07-2024 04:42	04:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90
27-07-2024 13:18	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35
16-07-2024 09:54	09:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95
02-07-2024 10:25	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95
09-07-2024 11:11	11:11:00	CNR9975925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30
19-07-2024 21:18	21:18:00	CNR4443921904	Success	CID654618	Mini	Tumkur Road	Koramangala	231	50
25-07-2024 03:44	03:44:00	CNR7194303296	Success	CID538245	Mini	Mysore Road	Hennur	175	50

# OLA DATA ANALYST PROJECT

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

**SELECT**

**Vehicle\_Type, AVG(Customer\_Rating)**

**FROM**

**bookings**

**GROUP BY Vehicle\_Type;**

Vehide_Type	Avg(Customer_Rating)
Prime Sedan	4.0438
Bike	4.0338
Prime SU	4.0511
eBike	4.0375
Mini	4.0589
Prime Plus	4.0488
Auto	4.0578



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## OLA DATA ANALYST PROJECT

```
-- 9. Calculate the total booking value of rides completed successfully:  
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x x x  
x x x  
SELECT  
    SUM(Booking_Value) AS successful_ride_value  
FROM  
    bookings  
WHERE  
    Booking_Status = 'Success';
```

	<b>successful_ride_value</b>
▶	<b>17019467</b>



# OLA DATA ANALYST PROJECT

```
-- 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	Vehide Breakdown
CNR7924302885	Customer Demand
CNR1640228587	Other Issue
CNR7623690602	Other Issue
CNR9590311980	Customer Demand
CNR5863244684	Customer Demand
CNR9526078867	Customer Demand
CNR7154043084	Customer Demand

# OLA DATA ANALYST PROJECT

## POWER BI QUESTIONS

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- 1. RIDE VOLUME OVER TIME**
- 2. BOOKING STATUS BREAKDOWN**
- 3. TOP 5 VEHICLE TYPES BY RIDE DISTANCE**
- 4. AVERAGE CUSTOMER RATINGS BY VEHICLE TYPE**
- 5. CANCELLED RIDES REASONS**
- 6. REVENUE BY PAYMENT METHOD**
- 7. TOP 5 CUSTOMERS BY TOTAL BOOKING VALUE**
- 8. RIDE DISTANCE DISTRIBUTION PER DAY**
- 9. DRIVER RATINGS DISTRIBUTION**
- 10. CUSTOMER VS. DRIVER RATINGS**

# OLA DATA ANALYST PROJECT

## SEGREGATION OF THE VIEWS:

### 1. OVERALL

- RIDE VOLUME OVER TIME
- BOOKING STATUS BREAKDOWN

### 2. VEHICLE TYPE

- TOP 5 VEHICLE TYPES BY RIDE DISTANCE

### 3. REVENUE

- REVENUE BY PAYMENT METHOD
- TOP 5 CUSTOMERS BY TOTAL BOOKING VALUE
- RIDE DISTANCE DISTRIBUTION PER DAY

X X X  
X X X  
X X X  
X X X

### 4. CANCELLATION

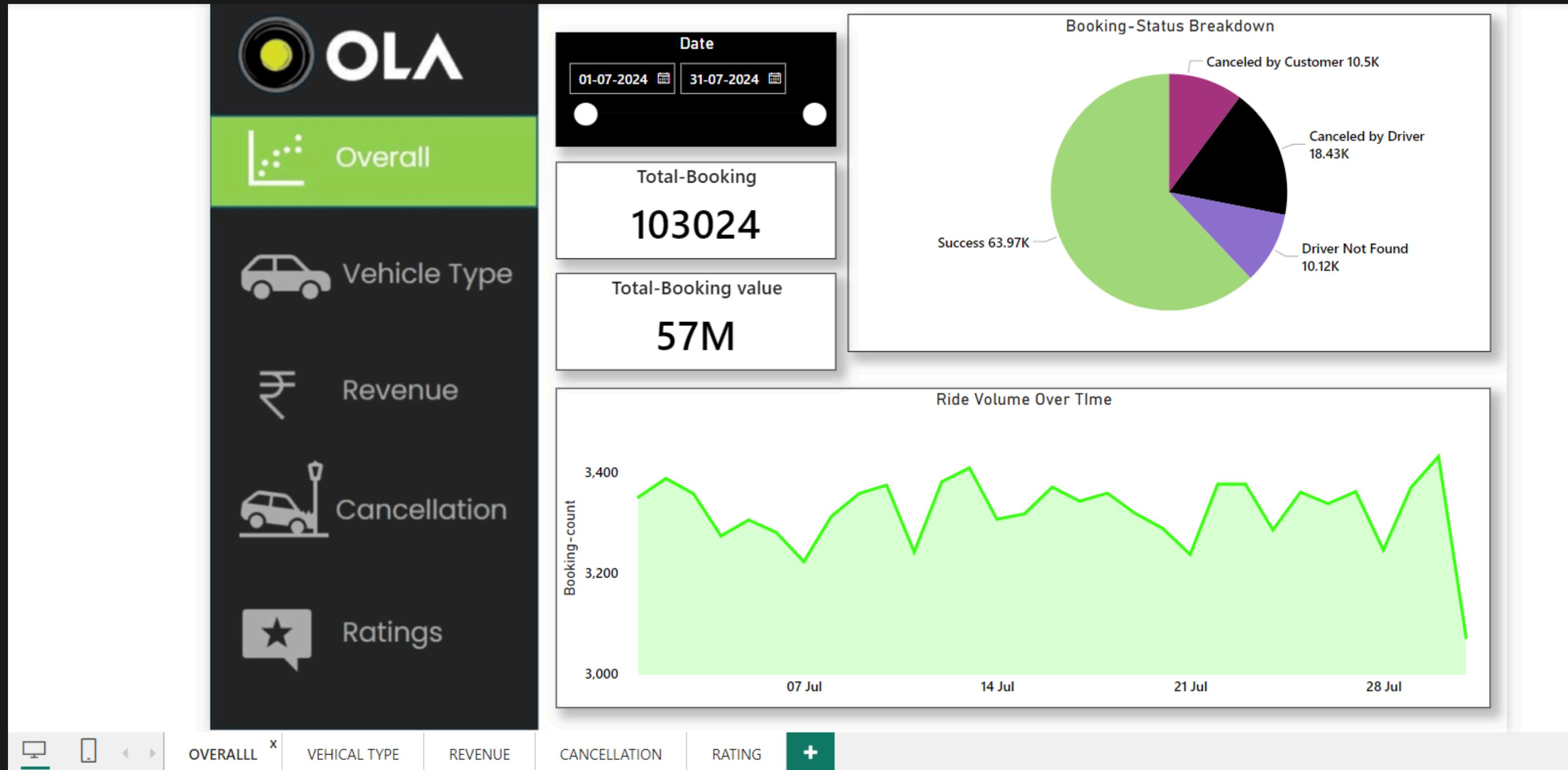
- CANCELLED RIDES REASONS (CUSTOMER)
- CANCELLED RIDES REASONS(DRIVERS)

X X X  
X X X  
X X X  
X X X

### 5. RATINGS

- DRIVER RATINGS
- CUSTOMER RATINGS

# OLA DATA ANALYST PROJECT



# OLA DATA ANALYST PROJECT

X X  
X X  
X X  
X X



Overall

 Vehicle Type

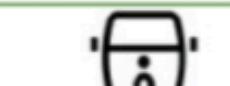
 Revenue

 Cancellation

 Ratings

OVERALL VEHICAL TYPE X REVENUE CANCELLATION RATING +

01-07-2024 31-07-2024

Vehicle Type	Total Booking Value	Success Booking Value	Avg. Distance Travelled	Total Distance Travelled
 Prime Sedan	8.30M	5.22M	25.01	234.54K
 Prime SUV	7.93M	4.88M	24.88	223.85K
 Prime Plus	8.05M	5.02M	25.03	227.19K
 Mini	7.99M	4.89M	24.98	225.70K
 Auto	8.09M	5.05M	10.04	92.04K
 Bike	7.99M	4.97M	24.93	227.75K
 E-Bike	7.99M	5.05M	25.15	230.84K

X X  
X X  
X X  
X X

# OLA DATA ANALYST PROJECT

X X  
X X  
X X  
X X



## OLA

Overall



## Vehicle Type



## Revenue



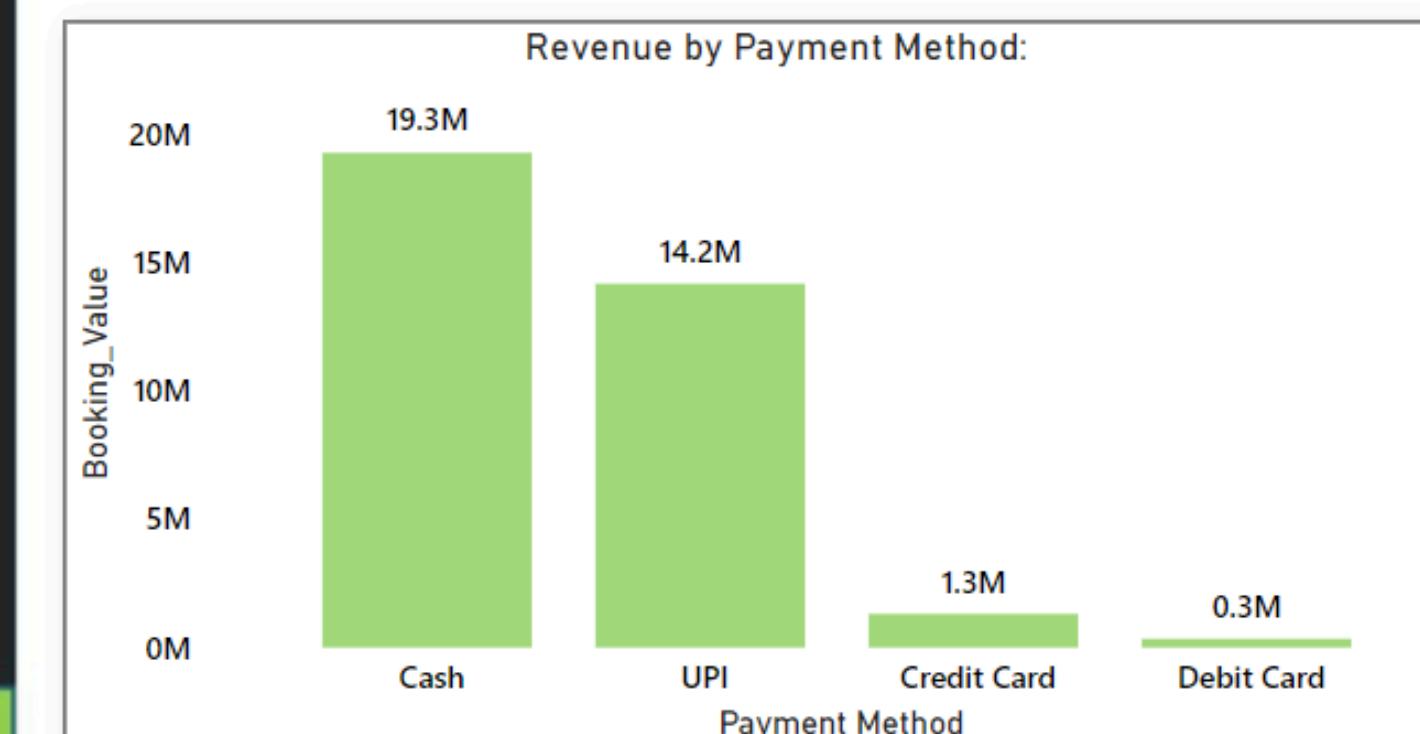
## Cancellation



## Ratings

OVERALL VEHICAL TYPE REVENUE CANCELLATION RATING +

### Revenue by Payment Method:



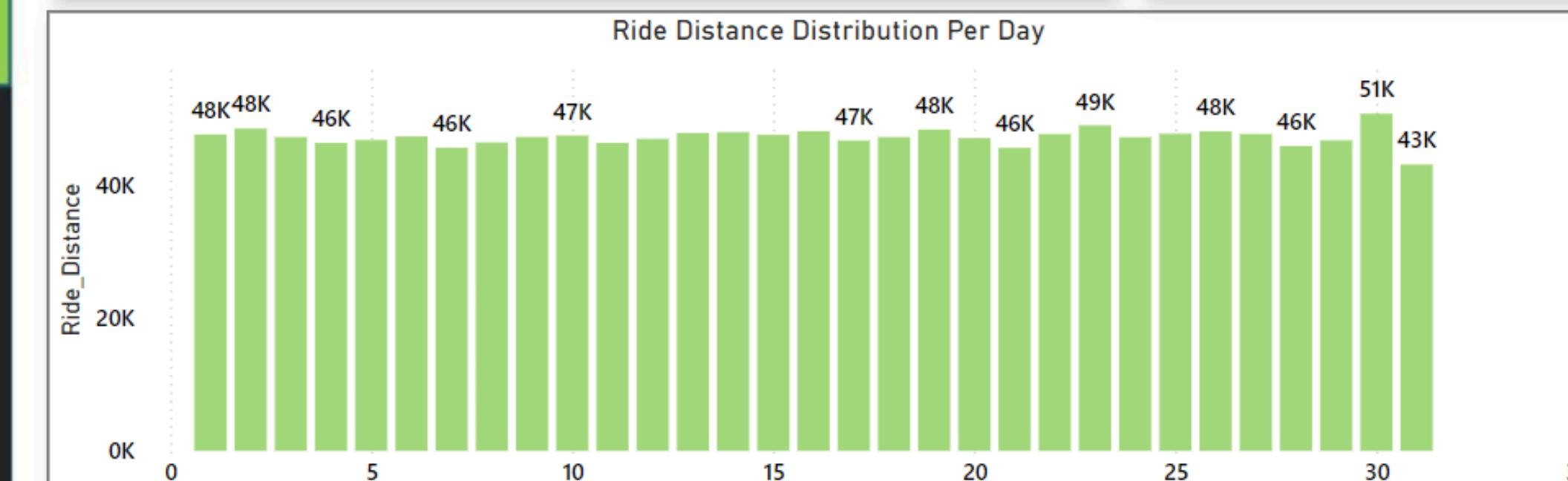
Payment Method	Booking_Value
Cash	19.3M
UPI	14.2M
Credit Card	1.3M
Debit Card	0.3M

Date

01-07-2024 31-07-2024

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

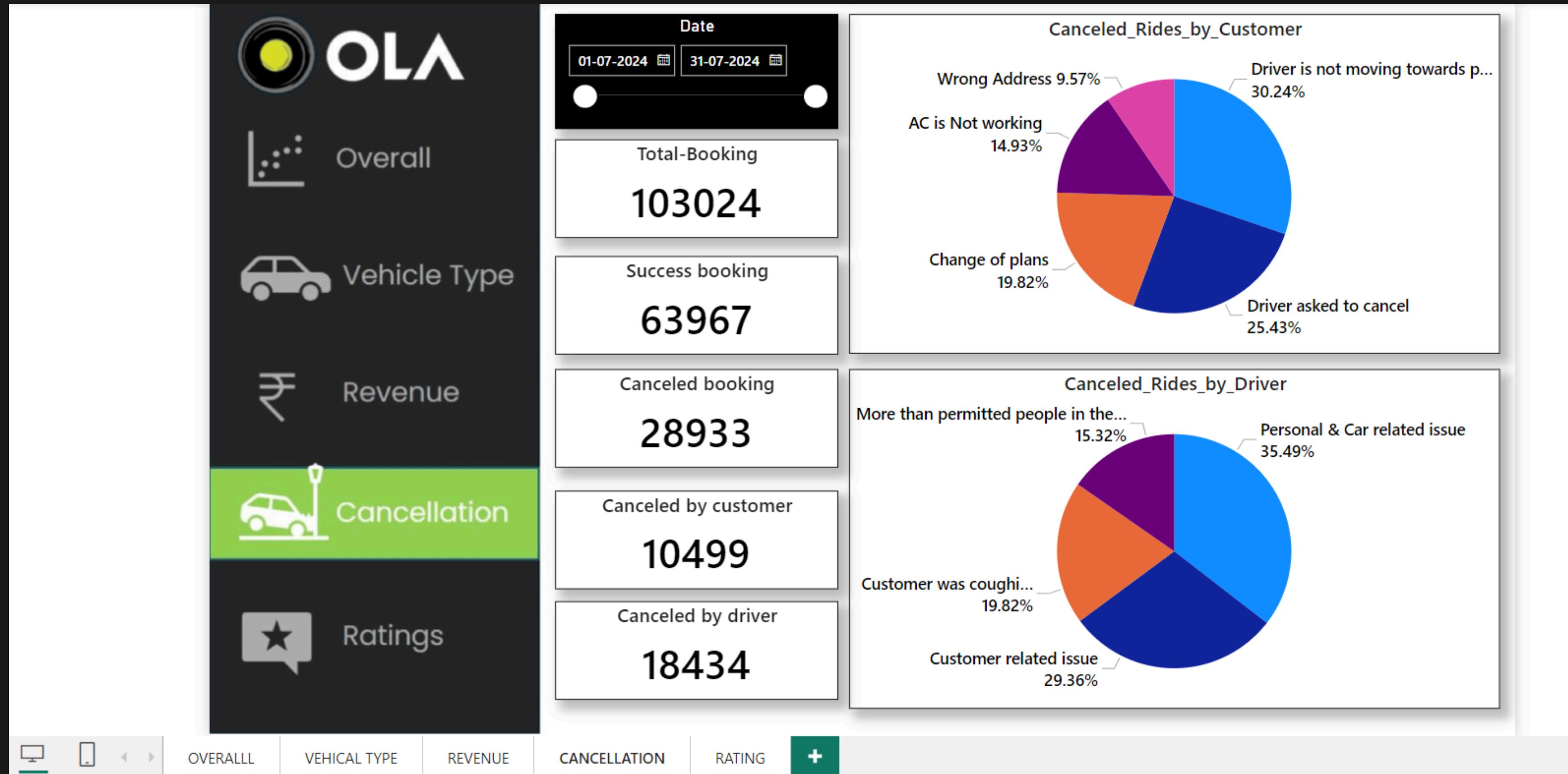
### Ride Distance Distribution Per Day



Day	Ride_Distance
0	48K
1	48K
2	46K
3	46K
4	46K
5	46K
6	47K
7	47K
8	47K
9	48K
10	48K
11	46K
12	46K
13	49K
14	48K
15	46K
16	46K
17	51K
18	43K

X X  
X X  
X X  
X X

# OLA DATA ANALYST PROJECT



# OLA DATA ANALYST PROJECT

X X  
X X  
X X  
X X

**OLA**

 Overall

 Vehicle Type

 Revenue

 Cancellation

 Ratings

 OVERALL VEHICAL TYPE REVENUE CANCELLATION RATING x +

Date  
01-07-2024 31-07-2024

**Driver rating**

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

**Customer rating**

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

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# THANK-YOU

