

OLA DATA ANALYSIS REPORT

Qu 1. Retrieve all successful bookings.

Ans - CREATE VIEW Successful_Bookings AS SELECT * FROM ola_booking
 WHERE Booking_Status = 'Success';
 select * from Successful_Bookings;

| | Booking_Status | Customer_ID | Vehicle_Type | Pickup_Location | Drop_Location | V_TAT | C_TAT | Cancelled_Rides_by_Customer | Cancelled_Rides_by_Driver | Incomplete_Rides | Incomplete_Rides_Reason | Booking_Va |
|---|----------------|-------------|--------------|-----------------|---------------|-------|-------|-----------------------------|---------------------------|------------------|-------------------------|------------|
| ▶ | Success | CID677211 | Prime SUV | Mysore Road | Varthur | 42 | 120 | null | null | No | null | 240 |
| | Success | CID112515 | Prime SUV | Bellandur | Hosur Road | 301 | 115 | null | null | No | null | 455 |
| | Success | CID201887 | Auto | Chickpet | RT Nagar | 119 | 110 | null | null | No | null | 372 |
| | Success | CID443421 | Auto | KR Puram | Richmond Town | 189 | 25 | null | null | No | null | 181 |
| | Success | CID603728 | eBike | Cox Town | Koramangala | 147 | 135 | null | null | No | null | 460 |
| | Success | CID798730 | Bike | RT Nagar | RT Nagar | 182 | 50 | null | null | No | null | 2534 |
| | Success | CID962164 | Prime Sedan | Yeshwanthpur | RT Nagar | 168 | 75 | null | null | No | null | 224 |
| | Success | CID322457 | eBike | Peenya | Cox Town | 98 | 95 | null | null | No | null | 502 |
| | Success | CID305239 | Prime Sedan | Koramangala | Vijayanagar | 91 | 110 | null | null | No | null | 978 |

INSIGHT-

This data provides the core foundation of OLA's operations, confirming that a diverse range of vehicle categories (Auto, Prime SUV, Bikes, etc.) are successfully completing trips. This specific filtered dataset of successful bookings will serve as the primary baseline for all future revenue and financial calculations.

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

Ans - CREATE VIEW Average_Distance AS
 SELECT Vehicle_Type, AVG(Ride_Distance) AS Average_Distance
 FROM ola_booking GROUP BY Vehicle_Type;
 SELECT * FROM Average_Distance;

| Vehicle_Type | Average_Distance |
|--------------|------------------|
| ▶ Prime SUV | 15.2950 |
| Auto | 6.2053 |
| eBike | 15.7414 |
| Mini | 15.5033 |
| Prime Plus | 15.2206 |
| Bike | 15.8755 |
| Prime Sedan | 15.6621 |

INSIGHT-

The data reveals a distinct customer behavior pattern: 'Auto' rides are predominantly used for short, local commutes (averaging ~6.2 km), while all other vehicle categories (both cabs and bikes) are consistently preferred for longer trips averaging around 15 km. OLA can leverage this trend to optimize vehicle deployment by ensuring higher availability of Autos near local transit hubs and residential markets.

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

Ans- CREATE VIEW Canceled_by_Customer AS
SELECT COUNT(*) FROM ola_booking
WHERE Booking_Status = 'Canceled by Customer';
SELECT * FROM Canceled_by_Customer;

| | count(*) |
|---|----------|
| ▶ | 4079 |

INSIGHT-

The data highlights a significant volume of rides (4,079 bookings) cancelled directly by customers. This high cancellation rate points to potential operational inefficiencies, such as excessive driver wait times or drivers forcing off-app payments. OLA needs to investigate the specific cancellation reasons to improve user experience and minimize revenue loss.

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

Ans- CREATE VIEW Top_Customers AS SELECT
Customer_ID, COUNT(Booking_ID) AS Total_Rides
FROM ola_booking GROUP BY Customer_ID ORDER BY Total_Rides DESC LIMIT 5;
SELECT * FROM Top_Customers;

| | Customer_ID | Total_Rides |
|---|-------------|-------------|
| ▶ | CID219102 | 3 |
| | CID189965 | 3 |
| | CID266327 | 3 |
| | CID328887 | 3 |
| | CID225210 | 3 |

INSIGHT-

The analysis of top customers indicates a very low repeat-booking rate, with the highest frequency being only 3 rides per customer. This highlights a critical need to focus on customer retention. OLA should introduce targeted loyalty programs, subscription passes, or repeat-ride discounts to incentivize users to use the platform more frequently.

Qu 5. Get the number of rides cancelled by driver due to personal & car related issue.

Ans- CREATE VIEW Canceled_ride_by_Driver AS
SELECT COUNT(Booking_ID) FROM ola_booking

```
WHERE Cancelled_Rides_by_Driver = 'Personal & Car related issue';
SELECT * FROM Canceled_ride_by_Driver;
```

| | count(Booking_ID) |
|---|-------------------|
| ▶ | 2500 |

INSIGHT-

This analysis reveals that 2,500 bookings were lost due to driver-end cancellations cited as personal or vehicle issues. This indicates a gap in fleet reliability and driver availability. OLA should consider implementing stricter vehicle maintenance checks and analyzing driver cancellation patterns to ensure that 'personal reasons' are not being used as an excuse to avoid certain routes or low-fare trips.

Qu 6. Find the maximum and minimum drivers rating for Prime Sedan Bookings.

```
Ans- CREATE VIEW Max_Min_Rating AS
SELECT MAX(Driver_Rating) AS Max, MIN(Driver_Rating) AS Min
FROM ola_booking WHERE Vehicle_Type = 'Prime Sedan' AND Driver_Rating != 'null';
SELECT * FROM Max_Min_Rating;
```

| | Max | Min |
|---|-----|-----|
| ▶ | 5 | 3 |

INSIGHT-

The analysis of Prime Sedan bookings shows a service quality gap, with driver ratings ranging from a perfect 5 down to a minimum of 3. Since Prime Sedan is a premium offering, a rating of 3 indicates customer dissatisfaction that could lead to churn. OLA should implement targeted training for lower-rated drivers in this category or set a higher minimum rating threshold to maintain premium service standards.

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

```
Ans- CREATE VIEW Payments_byUPI AS
SELECT * FROM ola_booking WHERE Payment_Method = 'UPI';
SELECT * FROM Payments_byUPI;
```

| | Booking_Date | Booking_Time | Booking_ID | Booking_Status | Customer_ID | Vehide_Type | Pickup_Location | Drop_Location | V_TAT | C_TAT | Cancelled_Rides_by_Customer | Cancelled_Rides_by_Driver |
|---|---------------------|--------------|---------------|----------------|-------------|-------------|-------------------|---------------|-------|-------|-----------------------------|---------------------------|
| ▶ | 2024-07-16 04:17:00 | 04:17:00 | CNR1000917188 | Success | CID201887 | Auto | Chikpet | RT Nagar | 119 | 110 | null | null |
| | 2024-07-13 22:50:00 | 22:50:00 | CNR1000967649 | Success | CID603728 | eBike | Cox Town | Koramangala | 147 | 135 | null | null |
| | 2024-07-28 22:16:00 | 22:16:00 | CNR1002400486 | Success | CID322457 | eBike | Peenya | Cox Town | 98 | 95 | null | null |
| | 2024-07-09 03:36:00 | 03:36:00 | CNR1003170189 | Success | CID326402 | Mini | Sarjapur Road | Chamrajpet | 35 | 145 | null | null |
| | 2024-07-01 03:36:00 | 03:36:00 | CNR1003243021 | Success | CID953482 | Prime SUV | Bannerghatta Road | Indiranagar | 231 | 100 | null | null |
| | 2024-07-15 18:43:00 | 18:43:00 | CNR1003635449 | Success | CID613653 | eBike | RT Nagar | Langford Town | 147 | 125 | null | null |
| | 2024-07-04 10:56:00 | 10:56:00 | CNR1004398406 | Success | CID138998 | Bike | Frazer Town | Kammanahalli | 294 | 105 | null | null |
| | 2024-07-23 12:55:00 | 12:55:00 | CNR1004654136 | Success | CID784785 | Mini | Basavanagudi | Basavanagudi | 84 | 120 | null | null |
| | 2024-07-14 17:43:00 | 17:43:00 | CNR1004817801 | Success | CID562025 | Prime Sedan | Yelahanka | Cox Town | 224 | 140 | null | null |
| | 2024-07-28 01:43:00 | 01:43:00 | CNR1005035605 | Success | CID780772 | eBike | Javanaar | Kenderi | 287 | 65 | null | null |

| | |
|---|----------|
| | count(*) |
| ▶ | 10289 |

INSIGHT-

The data shows a high adoption of digital payments, with 10,289 rides completed using UPI. This indicates a tech-savvy customer base and a reduced dependency on cash transactions. OLA can further encourage this trend by partnering with UPI service providers for exclusive cashback offers, which would streamline the payment process and improve driver settlement speed.

Qu 8. Find the average customer rating per vehicle type.

Ans- CREATE VIEW AVERAGE_RATING AS

```
SELECT Vehicle_Type, AVG(Customer_Rating) AS Average_Rating
```

```
FROM ola_booking WHERE Customer_Rating != 'null'
```

```
GROUP BY Vehicle_Type;
```

```
SELECT * FROM AVERAGE_RATING;
```

| Vehicle_Type | Average_Rating |
|--------------|----------------|
| Prime SUV | 3.99 |
| Auto | 4 |
| eBike | 3.99 |
| Bike | 3.98 |
| Prime Sedan | 3.99 |
| Mini | 4.01 |
| Prime Plus | 4 |

INSIGHT-

The analysis shows a very consistent customer satisfaction level across all vehicle types, with average ratings hovering around 4.0. Interestingly, the 'Mini' category holds the highest average rating of 4.01, suggesting it is the most well-received service in terms of price and quality balance. OLA can analyze feedback specifically for 'Mini' to implement those success factors across other categories to push the overall rating closer to 4.5.

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

Ans- CREATE VIEW Total_Values AS

```
SELECT SUM(Booking_Value) AS Total_Booking_Value  
FROM ola_booking WHERE Booking_Status = 'Success';  
SELECT * FROM Total_Values;
```

| Total_Booking_Value |
|---------------------|
| 13762477 |

INSIGHT-

This metric represents the total successful revenue generated, amounting to ₹1,37,62,477. As the primary financial indicator, this value is crucial for assessing OLA's market performance and profitability. Moving forward, this revenue data can be used to calculate the Return on Investment (ROI) for marketing campaigns and to plan strategic expansions into higher-earning zones.

Qu 10. List all incomplete rides along with the reason.

Ans- CREATE VIEW Incomplete_Rides AS

```
SELECT Booking_ID, Incomplete_Rides_Reason  
FROM ola_booking  
WHERE Incomplete_Rides = 'Yes';  
SELECT * FROM Incomplete_Rides;
```

| Booking_ID | Incomplete_Rides_Reason |
|----------------|-------------------------|
| CNR 1013614931 | Customer Demand |
| CNR 1014982452 | Vehide Breakdown |
| CNR 1015879654 | Vehide Breakdown |
| CNR 1017297364 | Vehide Breakdown |
| CNR 1024527142 | Other Issue |
| CNR 1033318953 | Customer Demand |
| CNR 1044820146 | Customer Demand |
| CNR 1056748515 | Vehide Breakdown |

| count(*) |
|----------|
| 1542 |

INSIGHT-

The analysis identifies a significant operational gap with 1,542 incomplete rides. The prevalence of 'Vehicle Breakdowns' as a primary reason suggests an urgent need for stricter vehicle fitness audits. OLA should implement automated maintenance alerts and provide immediate alternative ride support for these 1,542+ scenarios to safeguard customer trust and minimize service disruptions.