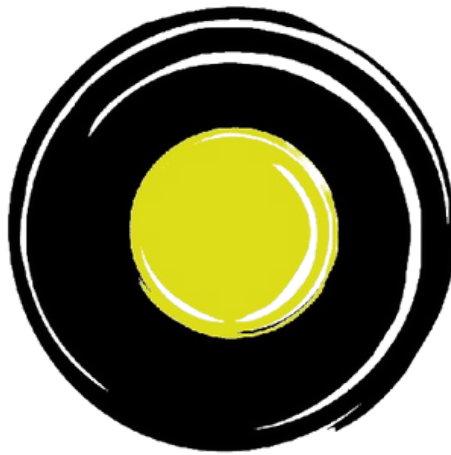


OLA Trips Analysis In Power BI Dashboard



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Objective

The Objective is to analyze Ola data to gather insights on customer and driver issues, created using Power BI and MySQL.

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:

Power Bi Questions

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

Columns in the Dataset

- Date
- Time
- Booking_ID
- Booking _ Status
- Customer ID
- Vehicle_Type
- Pickup_Location
- Drop_Location
- V TAT
- TAT
- cancelled_Rides_by_Customer
- cancelled_Rides_by_Driver
- Incomplete _ Rides
- Incomplete_Rides_Reason
- Booking _ Value
- Payment_Method
- Ride Distance
- Driver_Ratings
- Customer_Rating

SQL Answers

1) Retrieve Successful bookings

```
CREATE VIEW successfull_bookings AS (  
SELECT * FROM bookings  
WHERE Booking_Status = "Success"  
);
```

```
SELECT * FROM successfull_bookings;
```

2) Find the average ride distance for each vehicle type

```
CREATE VIEW avg_distance AS (  
SELECT vehicle_type, round(AVG(ride_distance),2) AS  
avg_distance  
FROM successfull_bookings  
GROUP BY vehicle_type  
);
```

3) Get the total number of cancelled rides by customer:

```
CREATE VIEW cancelled AS (  
SELECT COUNT(*) AS cacelled_bookings FROM bookings  
WHERE Booking_status = "Canceled by Customer"  
);
```

```
SELECT * FROM cancelled;
```

4) Retrieve all rides where payment was made using UPI:

```
CREATE VIEW payment_by_upi AS (  
SELECT * FROM bookings  
WHERE Payment_Method = "UPI"  
);
```

```
SELECT * FROM payment_by_upi;
```

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

```
CREATE VIEW top5 AS (  
SELECT customer_id, COUNT(booking_id) AS  
number_of_books  
FROM bookings  
GROUP BY customer_id  
ORDER BY COUNT(booking_id) DESC  
LIMIT 5  
);
```

```
SELECT * FROM top5;
```

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

```
CREATE VIEW personal_reason AS (  
SELECT * FROM bookings  
WHERE Canceled_Rides_by_Driver =  
"Personal & Car related issue"  
);
```

```
SELECT * FROM personal_reason;
```

7) Find the maximum and minimum driver ratings for Prime Sedan bookings:

```
CREATE VIEW low_min AS (  
SELECT MIN(driver_ratings) AS min_driver_rating,  
MAX(driver_ratings) AS max_driver_ratings  
FROM bookings  
);
```

```
SELECT * FROM low_min;
```

8) Find the average customer rating per vehicle type:

```
CREATE VIEW rating_by_vehicle AS (  
SELECT vehicle_type, round(AVG(customer_rating),2) AS avg_rating  
FROM bookings  
GROUP BY vehicle_type  
);
```

```
SELECT * FROM rating_by_vehicle;
```

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

```
CREATE VIEW total_booking_values AS (  
SELECT SUM(booking_value) AS total_value  
FROM bookings  
WHERE Incomplete_Rides != "No"  
);
```

```
SELECT * FROM total_booking_values;
```

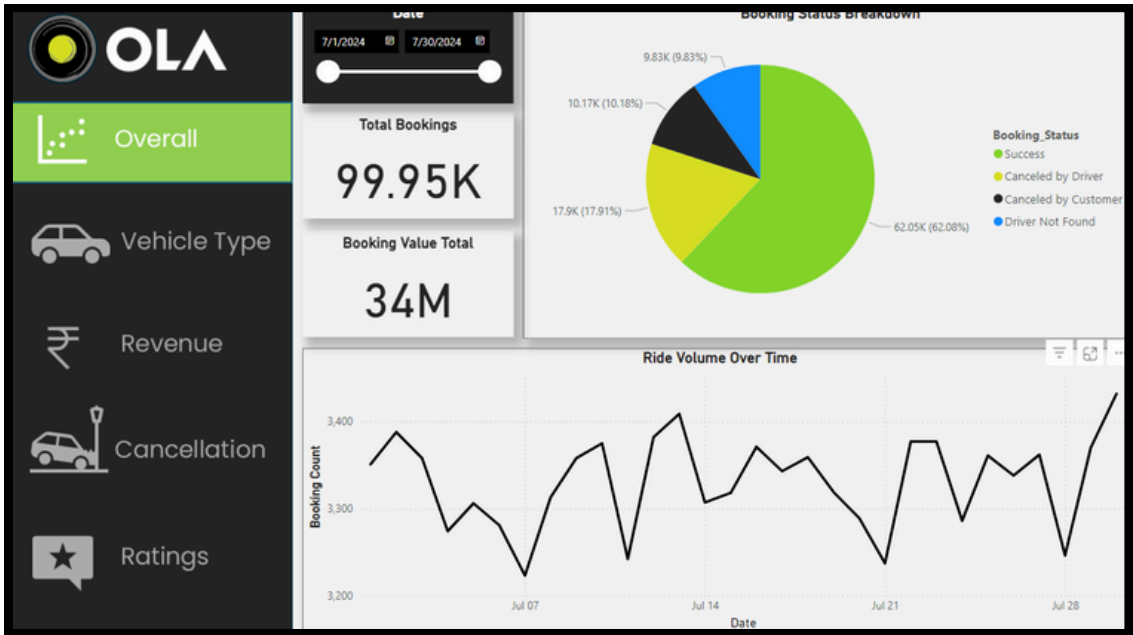
10) List all incomplete rides along with the reason:

```
CREATE VIEW reason AS (  
SELECT  
booking_id, customer_id, vehicle_type, pickup_location, drop_location, inc  
omplete_rides, incomplete_rides_reason  
FROM bookings  
WHERE Incomplete_rides = "No"  
);
```

```
SELECT * FROM reason;
```

Power Bi

- 1. **Ride Volume Over Time** - A time-series chart showing the number of rides per day/week.
- 2. **Booking Status Breakdown** - A pie or doughnut chart displaying the proportion of different booking statuses (success, cancelled by the customer, cancelled by the driver, etc.).
- 3. **Top 5 Vehicle Types by Ride Distance** - A bar chart ranking vehicle types based on the total distance covered.
- 4. **Average Customer Ratings by Vehicle Type** - A column chart showing the average customer ratings for different vehicle types.
- 5. **cancelled Rides Reasons** - A bar chart that highlights the common reasons for ride cancellations by customers and drivers.
- 6. **Revenue by Payment Method** - A stacked bar chart displaying total revenue based on payment methods (Cash, UPI, Credit Card, etc.).
- 7. **Top 5 Customers by Total Booking Value** - A leaderboard visual listing customers who have spent the most on bookings.
- 8. **Ride Distance Distribution Per Day** - A histogram or scatter plot showing the distribution of ride distances for different Dates.
- 9. **Driver Ratings Distribution** - A box plot visualizing the spread of driver ratings for different vehicle types.
- 10. **Customer vs. Driver Ratings** - A scatter plot comparing customer and driver ratings for each completed ride, analyzing correlations.



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

