

OLA RIDE ANALYTICS PROJECT

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DETAILS ABOUT THE PROJECT;

This schema outlines the key attributes of a ride booking system, helping to track booking details, status, customer feedback, cancellations and more.

- 1. Date
- 2. Time
- 3. Booking ID
- 4. Booking Status
- 5. Customer ID
- 6. Vehicle Type
 - Auto
 - Prime Plus
 - Prime Sedan
 - Mini
 - Bike
 - eBike
 - Prime SUV
- 7. Pickup Location (Create dummy location points Take any 50 areas from Bangalore)
- 8. Drop Location (Take from dummy pickup locations)
- 9. Avg VTAT (Time taken to arrive at the vehicle)
- 10. Avg CTAT (Time taken to arrive the Customer)
- 11. Cancelled Rides by Customer
- 12. Reason for cancelling by Customer
- Driver is not moving towards pickup location
- Driver asked to cancel
- AC is not working (Only for 4-wheelers)
- Change of plans
- Wrong Address
- 13. Cancelled Rides by Driver
- Personal & Car related issues
- Customer related issue
- The customer was coughing/sick
- More than permitted people in there
- 14. Incomplete Rides
- 15. Incomplete Rides Reason

- Customer Demand
- Vehicle Breakdown
- Other Issue
- 16. Booking Value
- 17. Ride Distance
- 18. Driver Ratings
- 19. Customer Rating

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:

Data Columns

- 1. Date
- 2. Time
- 3. Booking ID
- 4. Booking Status
- 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

CREATE DATABASE OLA;

USE OLA;

SELECT * FROM BOOKINGS;

```
SELECT COUNT(*) AS total_count
FROM BOOKINGS;
#1. Retrieve all successful bookings:
SELECT * FROM BOOKINGS
WHERE BOOKING_STATUS='SUCCESSS';
#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;
#3. Get the total number of cancelled rides by customers:
SELECT count(*)
FROM bookings
WHERE booking_status='Canceled by Driver';
#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, booking_id
ORDER BY total_rides DESC
LIMIT 5;
```

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

```
SELECT count(*)
FROM bookings
WHERE Canceled_Rides_by_Driver='personal & car related issue';
#6. Find the maximum and minimum driver ratings for Prime Sedan bookings:
SELECT MAX(driver_ratings) as max_ratings, MIN(driver_ratings) as min_ratings
FROM bookings
WHERE vehicle_type = 'Prime Sedan';
#7. Retrieve all rides where payment was made using UPI:
SELECT *
FROM bookings
WHERE payment_method = 'UPI';
#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;
#9. Calculate the total booking value of rides completed successfully:
SELECT SUM(booking_value) AS total_booking_value
FROM bookings
WHERE booking_status = 'success';
```

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

SELECT Booking_id, incomplete_rides_reason

FROM bookings

WHERE incomplete_rides='yes';

Power BI Answers:

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

4. Cancellation

- Cancelled Rides Reasons (Customer)
- cancelled Rides Reasons (Drivers)

- 5. Ratings
- Driver Ratings
- Customer Ratings

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

Answers:

- 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 leader board 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 Rating 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.