**please create a spreadsheet with 1 lac rows, for bengaluru city. give the following columns.**

**the data will be for 1 month. use following column-**

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 the vehicle)

10. Avg CTAT (Time taken to arrive the customer)

11. Canceled Rides by Customer

12. Reason for canceling 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

keep the overall booking status success for this data at 62%. If the booking status is successful, then only fare charge ratings, average VTAT, average CTAT, and other data will be there.

Make Sure orders cancelled by customers should not be more than 7%

Make Sure orders cancelled drivers should not be more than 18%

Also, increase the number of orders on weekends and match days . keep match day by using the following dates.

Keep incomplete rides less than 6%

keep order value high on weekends

in food category keep around 67 indian

keep order ID with 10 digits starting with CNR and then digits

keep orders under 500 value 70%

keep orders above 500 value 28%

keep remaining orders above 1000

**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

**Data Columns**

1. Date 10. C\_TAT
2. Time 11. Cancelled\_Rides\_by\_Customer
3. Booking\_ID 12. Cancelled\_Rides\_by\_Driver
4. Booking\_Status 13.Incomplete\_Rides
5. Customer\_ID 14.Incomplete\_Rides\_Reason
6. Vehicle\_Type 15. Booking\_Value
7. Pickup\_Location 16. Payment\_Method
8. Drop\_Location 17. Ride\_Distance
9. V\_TAT 18. Driver\_Ratings

19.Customer\_Rating

**SQL QUERIES:**

Create Database Ola;

Use Ola;

#1. Retrieve all successful bookings

Create View Successful\_Bookings As

SELECT \* FROM bookings

WHERE Booking\_Status = 'Success';

#1. Retrieve all successful bookings

Select \* From Successful\_Booking;

#2. Find the Average ride distance for each vehicle type

Create View ride\_distance\_for\_each\_vehicle As

SELECT Vehicle\_Type, AVG(Ride\_Distance)

as avg\_distance FROM bookings

GROUP BY Vehicle\_Type;

#2. Find the Average ride distance for each vehicle type

SELECT \* FROM ride\_distance\_for\_each\_vehicle;

#3. Get the total number of canceled rides by customers

Create View canceled\_rides\_by\_customers As

SELECT COUNT(\*) FROM Bookings

WHERE Booking\_Status = 'Canceled by Customer';

#3. Get the total number of canceled rides by customers

SELECT \* FROM canceled\_rides\_by\_customers;

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

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;

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

SELECT \* FROM Top\_5\_Customers;

#5. Get the number of rides canceled by drivers due to personal reason or car related issues

Create View canceled\_by\_drivers\_P\_C\_issues As

SELECT COUNT(\*) FROM bookings

WHERE Canceled\_Rides\_by\_Driver = 'personal & Car related issue';

#5. Get the number of rides canceled by drivers due to personal reason or car related issues

SELECT \* FROM canceled\_by\_drivers\_P\_C\_issues;

#6. Find the Maximum and Minimum driver ratings for prime sedan booking

Create View Max\_Min\_Driver\_Rating As

SELECT MAX(Driver\_Ratings) as max\_rating,

MIN(Driver\_Ratings) as min\_rating

FROM bookings WHERE VEhicle\_Type = 'prime sedan';

#6. Find the Maximum and Minimum driver ratings for prime sedan booking

SELECT \* FROM Max\_Min\_Driver\_Rating;

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

Create View UPI\_Payment As

SELECT \* FROM bookings

WHERE Payment\_Method = 'UPI';

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

SELECT \* FROM UPI\_Payment;

#8. Find the average customer rating per vehicle type

Create View AVG\_Cust\_Rating AS

SELECT Vehicle\_Type, AVG(Customer\_Rating) as avg\_customer\_Rating

From bookings

GROUP BY Vehicle\_Type;

#8. Find the average customer rating per vehicle type

SELECT \* FROM AVG\_Cust\_Rating;

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

Create View total\_successful\_ride\_value As

SELECT SUM(Booking\_Value) as total\_successful\_value

FROM bookings

WHERE Booking\_Status = 'Success';

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

SELECT \* FROM total\_successful\_ride\_value;

#10. List all incomplete rides along with the reason

Create View Incomplete\_Rides\_Reason As

SELECT Booking\_ID, Incomplete\_Rides\_Reason

From bookings

Where Incomplete\_Rides = 'Yes';

#10. List all incomplete rides along with the reason

SELECT \* FROM Incomplete\_Rides\_Reason;

**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

**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 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 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.