**Case Study – Green Taxi Trip**

1. Shape of the Table (Number of Rows and Columns)
2. Show Summary of Green Taxi Rides – Total Rides, Total Customers, Total Sales,
3. Total Rides with Surcharge and its percentage.
4. Cumulative Sum of Total Fare Amount for Each Pickup Location
5. Which Payment Type is Most Common in Each Drop-off Location
6. Create a New Column for Trip Distance Band and Show Distribution
7. Find the Most Frequent Pickup Location (Mode) with rides fare greater than average of ride fare.
8. Show the Rate Code with the Highest Percentage of Usage
9. Show Distribution of Tips, Find the Maximum Chances of Getting a Tip
10. Calculate the Rank of Trips Based on Fare Amount within Each Pickup Location
11. Find Top 20 Most Frequent Rides Routes.
12. Calculate the Average Fare of Completed Trips vs. Cancelled Trips
13. Rank the Pickup Locations by Average Trip Distance and Average Total Amount.
14. Find the Relationship Between Trip Distance & Fare Amount
15. Identify Trips with Outlier Fare Amounts within Each Pickup Location
16. Categorize Trips Based on Distance Travelled
17. Top 5 Busiest Pickup Locations, Drop Locations with Fare less than median total fare
18. Distribution of Payment Types
19. Trips with Congestion Surcharge Applied and Its Percentage Count.
20. Top 10 Longest Trip by Distance and Its summary about total amount.
21. Trips with a Tip Greater than 20% of the Fare
22. Average Trip Duration by Rate Code
23. Total Trips per Hour of the Day
24. Show the Distribution about Busiest Time in a Day.