1. Retrieve the count of Successful and cancelled bookings:

SELECT

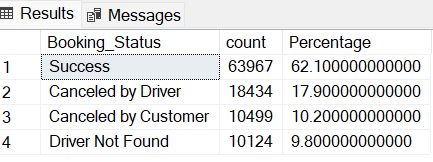
Booking\_Status,

COUNT(\*) as count,

ROUND((COUNT(\*) \* 100.0 / (SELECT COUNT(\*) FROM OLA\_data)),1) as Percentage

FROM OLA\_data

GROUP BY Booking\_Status;

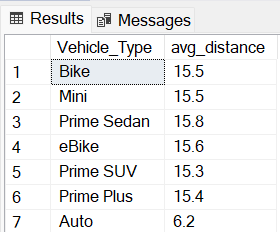


1. Find the average ride distance for each vehicle type:

SELECT Vehicle\_Type, ROUND(AVG(Ride\_Distance),1) as avg\_distance

FROM OLA\_data

GROUP BY Vehicle\_Type;



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

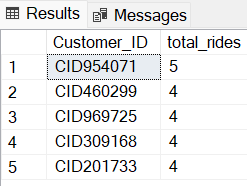
SELECT Customer\_ID, total\_rides

FROM ( SELECT Customer\_ID, COUNT(Booking\_ID) as total\_rides,

ROW\_NUMBER() OVER (ORDER BY COUNT(Booking\_ID) DESC) as row\_num

FROM OLA\_data GROUP BY Customer\_ID) as ranked

WHERE row\_num <= 5;



4. Get the number of rides cancelled by drivers for each reason.

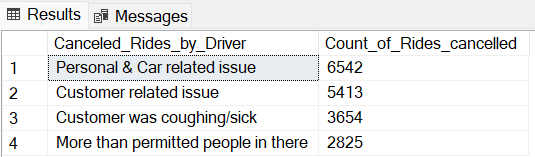
SELECT Canceled\_Rides\_by\_Driver, COUNT(\*) as Count\_of\_Rides\_cancelled

FROM OLA\_data

WHERE Canceled\_Rides\_by\_Driver != 'null'

GROUP BY Canceled\_Rides\_by\_Driver

ORDER BY 2 DESC;



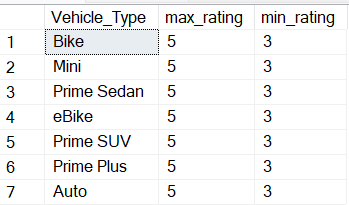
5. Find the maximum and minimum driver ratings for each vehicle type

SELECT Vehicle\_Type, MAX(Driver\_Ratings) as max\_rating, MIN(Driver\_Ratings) as min\_rating

FROM OLA\_data

WHERE Driver\_Ratings != 'null'

GROUP BY Vehicle\_Type;

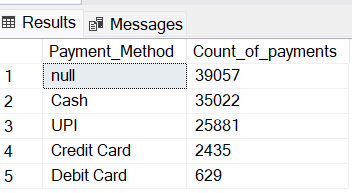


6. Retrieve the count of all rides for each payment type:

SELECT Payment\_Method, COUNT(\*) as Count\_of\_payments

FROM OLA\_data GROUP BY Payment\_Method

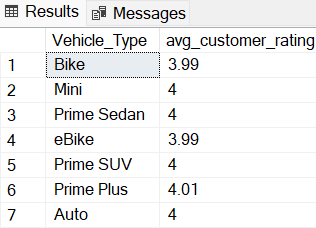
ORDER BY 2 DESC;



7. Find the average customer rating per vehicle type:

SELECT Vehicle\_Type, ROUND(AVG(Customer\_Rating),2) as avg\_customer\_rating

FROM OLA\_data GROUP BY Vehicle\_Type;

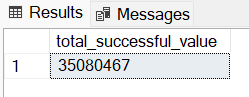


8. Calculate the total booking value of rides completed successfully:

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

FROM OLA\_data

WHERE Booking\_Status = 'Success';

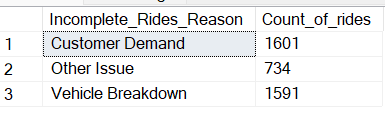


9. List count of incomplete rides for each reason type.

SELECT Incomplete\_Rides\_Reason, COUNT(\*) as Count\_of\_rides

FROM OLA\_data WHERE Incomplete\_Rides ='Yes'

GROUP BY Incomplete\_Rides\_Reason;



10. **Calculate the Average Booking Value by Vehicle Type and Pickup Location:**

SELECT Pickup\_Location,

ISNULL([Auto], 0) as Auto,

ISNULL([Bike], 0) as Bike,

ISNULL([Mini], 0) as Mini,

ISNULL([eBike], 0) as eBike,

ISNULL([Prime Sedan], 0) as [Prime Sedan],

ISNULL([Prime SUV], 0) as [Prime SUV],

ISNULL([Prime Plus], 0) as [Prime Plus]

FROM (

SELECT Vehicle\_Type, Pickup\_Location, Booking\_Value

FROM OLA\_data

WHERE Booking\_Status = 'Success'

) as source

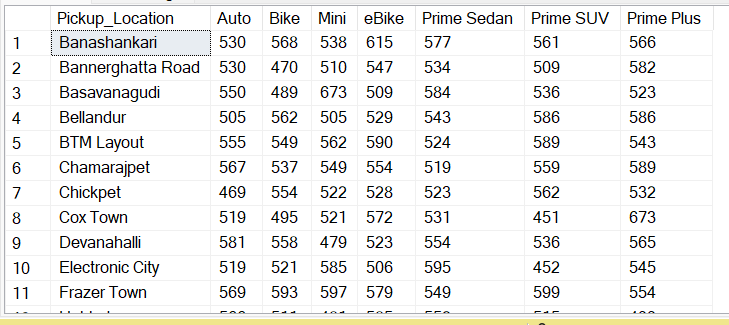
PIVOT (

AVG(Booking\_Value)

FOR Vehicle\_Type IN ([Auto], [Bike], [Mini], [eBike], [Prime Sedan], [Prime SUV], [Prime Plus])

) as pvt

ORDER BY Pickup\_Location;



11. Analyse the Distribution of Customer Ratings, number of rides and revenue Across Different Time Slots:

SELECT

CASE

WHEN DATEPART(HOUR, Time) BETWEEN 5 AND 11 THEN 'Morning'

WHEN DATEPART(HOUR, Time) BETWEEN 12 AND 15 THEN 'Afternoon'

WHEN DATEPART(HOUR, Time) BETWEEN 16 AND 19 THEN 'Evening'

WHEN DATEPART(HOUR, Time) BETWEEN 20 AND 23 THEN 'Night'

ELSE 'Midnight'

END as time\_slot,

AVG(Customer\_Rating) as avg\_customer\_rating,

COUNT(\*) as total\_rides,

SUM(Booking\_Value) as Revenue

FROM OLA\_data

WHERE Booking\_Status = 'Success'

GROUP BY CASE

WHEN DATEPART(HOUR, Time) BETWEEN 5 AND 11 THEN 'Morning'

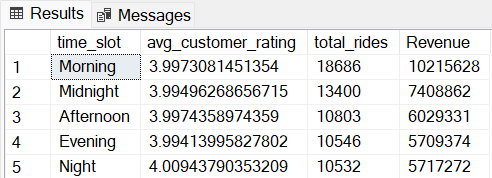
WHEN DATEPART(HOUR, Time) BETWEEN 12 AND 15 THEN 'Afternoon'

WHEN DATEPART(HOUR, Time) BETWEEN 16 AND 19 THEN 'Evening'

WHEN DATEPART(HOUR, Time) BETWEEN 20 AND 23 THEN 'Night'

ELSE 'Midnight' END

ORDER BY total\_rides DESC;



12. Identify peak hours for each vehicle type across different time slots

SELECT

Vehicle\_Type,

SUM(CASE WHEN DATEPART(HOUR, Time) BETWEEN 5 AND 11 THEN 1 ELSE 0 END) as Morning,

SUM(CASE WHEN DATEPART(HOUR, Time) BETWEEN 12 AND 16 THEN 1 ELSE 0 END) as Afternoon,

SUM(CASE WHEN DATEPART(HOUR, Time) BETWEEN 17 AND 21 THEN 1 ELSE 0 END) as Evening,

SUM(CASE WHEN DATEPART(HOUR, Time) BETWEEN 21 AND 23 THEN 1 ELSE 0 END) as Night,

SUM(CASE WHEN DATEPART(HOUR, Time) BETWEEN 0 AND 4 THEN 1 ELSE 0 END) as Midnight

FROM OLA\_data

WHERE Booking\_Status = 'Success'

GROUP BY Vehicle\_Type

ORDER BY Vehicle\_Type;

