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SQL Project

Presented By Vaibhav Rana

Overview

- Retrieve all successful bookings
- Find the average ride distance for each vehicle type
- Get the total number of cancelled rides by customers
- List the top 5 customers who booked the highest number of rides
- Get the number of rides cancelled by drivers due to personal and car-related issues
- Find the maximum and minimum driver ratings for Prime Sedan bookings
- Retrieve all rides where payment was made using UP
- Find the average customer rating per vehicle type
- Calculate the total booking value of rides completed successfully
- List all incomplete rides along with the reason

Introduction

Hello, my name is Vaibhav Rana, and I am a Data Analyst with a strong passion for working with data to derive meaningful insights. In this project, I will be using SQL to analyze and answer key questions related to Ola, focusing on customer behavior, ride patterns, and operational data.

Through SQL queries, I will demonstrate how to extract, manipulate, and analyze Ola's data to address specific business questions. This project highlights my ability to use SQL to gain insights into important metrics, such as ride frequency, customer demographics, driver performance, and more.

By the end of this project, I aim to showcase the practical application of SQL in solving real-world business challenges within the ride-sharing industry.

Retrieve all successful bookings

```
CREATE VIEW successful_booking AS
    SELECT
        *
    FROM
        bookings
    WHERE
        booking_status = 'Success';
```

Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	In
Success	CID225428	Bike	Magadi Road	Varthur	203	30	NULL	NULL	No	NUL
Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL	NULL	No	NUL
Success	CID939555	Mini	Rajajinagar	Chamarajpet	252	80	NULL	NULL	No	NUL

Find the average ride distance for each vehicle type

```sql
CREATE VIEW average_distance_of_each_vehicle_type AS
    SELECT
        Vehicle_Type, AVG(Ride_Distance) AS avg_ride_distance
    FROM
        bookings
    GROUP BY Vehicle_type;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Vehicle_Type	avg_ride_distance
Prime Sedan	15.6918
Bike	15.6819
Prime SUV	15.1622
eBike	15.6601
Mini	15.5062
Prime Plus	15.3294
Auto	6.1807

Get the total number of cancelled rides by customers

```sql
CREATE VIEW no_of_canceled_rides_by_customers AS
    SELECT
        COUNT(*)
    FROM
        bookings
    WHERE
        Booking_Status = 'Canceled by Customer';
```

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

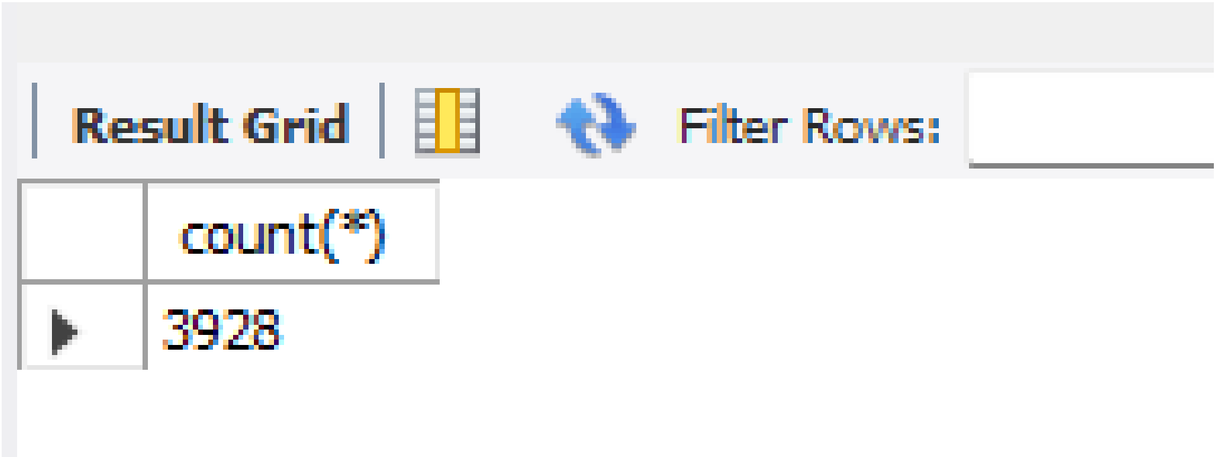
```sql
CREATE VIEW top_5_customer AS
    SELECT
        Customer_ID, COUNT(Booking_ID) AS total_ride
    FROM
        bookings
    GROUP BY Customer_ID
    ORDER BY total_ride DESC
    LIMIT 5;
```

Result Grid | Filter Rov

Customer_ID	total_ride
CID340854	4
CID558349	3
CID989500	3
CID333767	3
CID152855	3

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

```sql
CREATE VIEW rides_cancelled_by_drivers_p_c_issues AS
 SELECT
     COUNT(*)
 FROM
     bookings
 WHERE
     Canceled_Rides_by_Driver = 'Personal & Car related issue';
```



Find the maximum and minimum driver ratings for Prime Sedan bookings

```sql
SELECT
    MAX(Driver_Ratings) AS max_rating,
    MIN(Driver_Ratings) AS min_ratings
FROM
    bookings
WHERE
    Vehicle_Type = 'Prime Sedan';
```

Result Grid | Filter Rows:

	max_rating	min_ratings
▶	5	3

List all incomplete rides along with the reason

```
CREATE VIEW incomplete_rides_with_reason AS
SELECT
    Incomplete_Rides, Incomplete_Rides_Reason
FROM
    bookings
WHERE
    Incomplete_Rides = 'Yes';
```

Result Grid | Filter Rows:

Incomplete_Rides	Incomplete_Rides_Reason
Yes	Customer Demand
Yes	Vehicle Breakdown
Yes	Customer Demand
Yes	Other Issue
Yes	Other Issue

Find the average customer rating per vehicle type

```
CREATE VIEW avg_cus_rating_per_vehicle_type AS
 SELECT
     Vehicle_Type, AVG(Customer_Rating)
 FROM
     bookings
 GROUP BY Vehicle_Type;
```

Result Grid | Filter Rows:

Vehicle_Type	avg(Customer_Rating)
Prime Sedan	4.00039854444636 5
Bike	3.987673397717297
Prime SUV	3.9949417758369723
eBike	3.9885473388371717
Mini	4.000000000000006
Prime Plus	4.0034351145038 29
Auto	3.9999461206896423

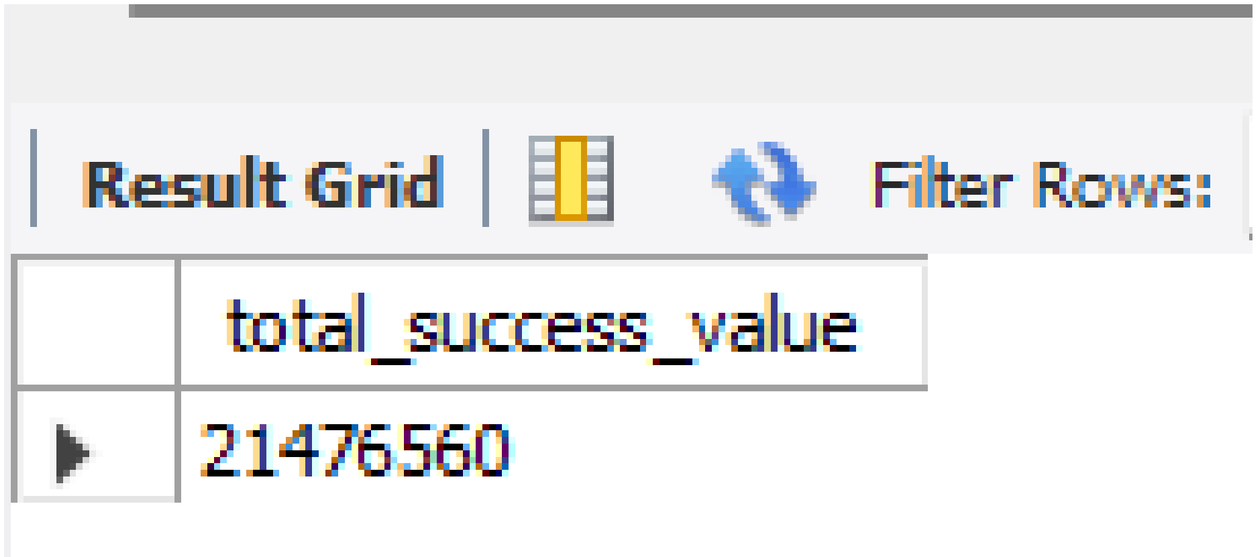
Retrieve all rides where payment was made using UPI

```sql
CREATE VIEW rides_with_upi AS
    SELECT
        *
    FROM
        bookings
    WHERE
        Payment_method = 'UPI';
```

Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Canceled_Rides_by_Customer	Canceled_Rides_by_Driver	Incomplete_Rides	Incomplete_R
24-07-30 19:59:00	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL	NULL	No	NULL
24-07-13 4:42:00	04:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL	NULL	No	NULL
24-07-27 13:18:00	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	NULL	NULL	No	NULL
24-07-16 9:54:00	09:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL	NULL	No	NULL
24-07-02 10:25:00	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	NULL	NULL	No	NULL
24-07-09 11:11:00	11:11:00	CNR9975925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	NULL	NULL	No	NULL

Calculate the total booking value of rides completed successfully

```sql
CREATE VIEW value_of_successfully_rides AS
    SELECT
        SUM(Booking_Value) AS total_success_value
    FROM
        bookings
    WHERE
        Booking_Status = 'Success';
```



	total_success_value
▶	21476560