Ola Ride Data Analysis Dashboard

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1. 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.

SQL Answers:

```
create database ola;

use ola;
```

#1. Retrieve all successful bookings:

```
create view Successful_Bookings as

select * from bookings

where Booking_Status = 'Success';
```

```
select * from Successful_Bookings;
```

#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;

select * from ride_distance_for_each_vehicle;
```

#3. Get the total number of cancelled rides by customers:

```
create view canceled_rides_by_customers as
select count(*) from bookings
where Booking_Status = 'Canceled by Customer';

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;

select * from Top_5_Customers;
```

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

```
create view Rides_Canceled_by_Drivers_P_C_issues as
select count(*) from bookings
where Canceled_Rides_by_Driver = 'Personal & Car related issue';

select * from Rides_Canceled_by_Drivers_P_C_issues;
```

#6. Find the maximum and minimum driver ratings for Prime Sedan bookings:

```
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';

select * from Max_Min_Driver_Rating;
```

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

```
create view UPI_Payment as
select * from bookings
where Payment_Method = 'UPI';

select * from UPI_Payment;
```

#8. Find the average customer rating per vehicle type:

```
create view Avg_Customer_Rating as
```

```
select Vehicle_Type, avg(Customer_Rating) as avg_Customer_Rating
from bookings
group by Vehicle_Type;

select * from Avg_Customer_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_Ride_Value
from bookings
where Booking_Status = 'Success';

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';

select * from Incomplete_Rides_Reason;
```

2. 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

3. DAX Code:

% of Cancelled Bookings = (Total Cancelled Bookings) * 100 / Total Bookings

A)

```
CanceledBookings =
CALCULATE(
    COUNTROWS(July),
    July[Booking_Status] IN {"Canceled by Driver", "Canceled by Customer"}
)
```

B)

```
TotalBookings = COUNTROWS(July)
```

C)

```
CanceledPercentage =
```

DIVIDE([CanceledBookings],[TotalBookings], 0)