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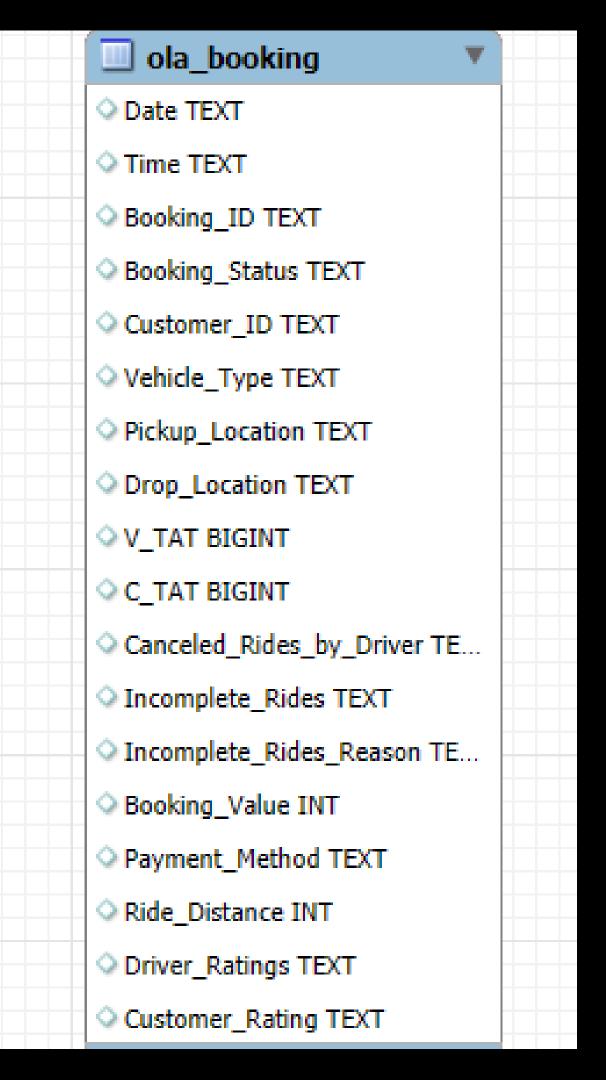💻 GitHub: github.com/SrushtiGavandi

OLA DATA ANALYST PROJECT

SQL QUERY AND OUTPUT

Note: The data shown below for all the queries are for demonstration purposes only and includes sample entries to illustrate the query results. Additional data is present beyond what is displayed .

ola_booking

- Date TEXT
- Time TEXT
- Booking_ID TEXT
- Booking_Status TEXT
- Customer_ID TEXT
- Vehicle_Type TEXT
- Pickup_Location TEXT
- Drop_Location TEXT
- V_TAT BIGINT
- C_TAT BIGINT
- Canceled_Rides_by_Driver TE...
- Incomplete_Rides TEXT
- Incomplete_Rides_Reason TE...
- Booking_Value INT
- Payment_Method TEXT
- Ride_Distance INT
- Driver_Ratings TEXT
- Customer_Rating TEXT

COMPARE CURRENT RIDE VALUE TO AVG OF THAT VEHICLE TYPE

```sql
SELECT VEHICLE_TYPE , BOOKING_VALUE ,
ROUND(AVG(BOOKING_VALUE) OVER(PARTITION BY VEHICLE_TYPE),2) AS AVG_BOOKING_VALUE ,
CASE
 WHEN BOOKING_VALUE >AVG(BOOKING_VALUE) OVER(PARTITION BY VEHICLE_TYPE) THEN 'ABOVE_AVG'
WHEN BOOKING_VALUE<AVG(BOOKING_VALUE) OVER(PARTITION BY VEHICLE_TYPE) THEN 'BELOW_AVG'
ELSE 'NO CHANGE'
END AS COMPARISON_OF_VALUES
FROM OLA_BOOKING
ORDER BY BOOKING_VALUE DESC ;
```

VEHICLE_TYPE	BOOKING_VALUE	AVG_BOOKING_VALUE	COMPARISON_OF_VALUES
Mini	2999	548.87	ABOVE_AVG
Prime Sedan	2998	565.45	ABOVE_AVG
Mini	2997	548.87	ABOVE_AVG
Mini	2994	548.87	ABOVE_AVG
Bike	2993	537.11	ABOVE_AVG
Prime Sedan	2991	565.45	ABOVE_AVG
eBike	2990	539.99	ABOVE_AVG
eBike	2989	539.99	ABOVE_AVG
Prime Sedan	2989	565.45	ABOVE_AVG
Prime Sedan	2989	565.45	ABOVE_AVG
Prime SUV	2987	535.64	ABOVE_AVG
Auto	2985	544.06	ABOVE_AVG
Bike	2983	537.11	ABOVE_AVG

FIND EACH CUSTOMER'S RANK BASED ON TOTAL BOOKING VALUE

```sql
SELECT CUSTOMER_ID ,
SUM(BOOKING_VALUE) AS TOTAL_VALUE ,
RANK() OVER (ORDER BY SUM(BOOKING_VALUE) DESC) AS CUSTOMER_RANK
FROM OLA_BOOKING
GROUP BY CUSTOMER_ID ;
```

CUSTOMER_ID	TOTAL_VALUE	CUSTOMER_RANK
CID836942	3757	1
CID749265	3429	2
CID185837	3313	3
CID353074	3269	4
CID307511	3242	5
CID940408	3182	6
CID667686	3120	7
CID367635	3098	8
CID219102	3015	9
CID449284	2999	10
CID159544	2998	11
CID440575	2997	12
CID211966	2994	13

WHICH PICKUP LOCATION HAS THE HIGHEST NUMBER OF BOOKINGS ?

```sql
SELECT PICKUP_LOCATION , COUNT(*) AS TOTAL_BOOKINGS
FROM OLA_BOOKING
GROUP BY PICKUP_LOCATION
ORDER BY TOTAL_BOOKINGS  DESC
LIMIT 1;
```

PICKUP_LOCATION	TOTAL_BOOKINGS
▶ Sarjapur Road	445

FIND THE AVG RIDE DISTANCE FOR EACH VEHICLE TYPE .

```sql
SELECT VEHICLE_TYPE ,
ROUND(AVG(RIDE_DISTANCE) , 2) AS AVG_RIDE_DISTANCE
FROM OLA_BOOKING
GROUP BY VEHICLE_TYPE ;
```

VEHICLE_TYPE	AVG_RIDE_DISTANCE
Prime Sedan	15.27
Bike	16.16
Prime SUV	15.19
eBike	15.68
Mini	15.72
Prime Plus	14.87
Auto	6.21

CALCULATE 7 DAY MOVING AVG OF BOOKINGS

```sql
SELECT DATE ,
COUNT(*) AS DAILY_BOOKINGS ,
AVG(COUNT(*)) OVER(ORDER BY DATE ROWS BETWEEN 6 PRECEDING AND CURRENT ROW ) AS MOVING_AVG
FROM OLA_BOOKING
GROUP BY DATE
ORDER BY DATE ;
```
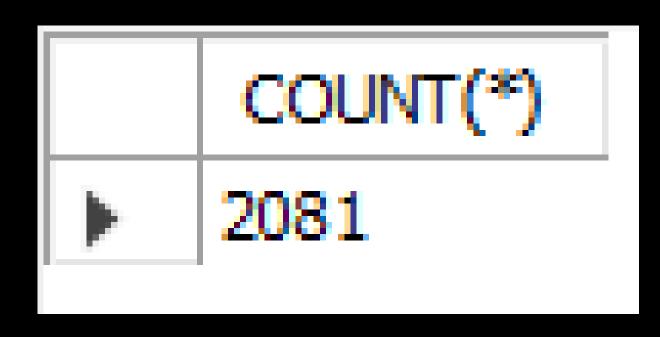
DATE	DAILY_BOOKINGS	MOVING_AVG
7/1/2024 0:02	1	1.0000
7/1/2024 0:03	1	1.0000
7/1/2024 0:04	1	1.0000
7/1/2024 0:06	1	1.0000
7/1/2024 0:09	1	1.0000
7/1/2024 0:14	1	1.0000
7/1/2024 0:22	1	1.0000
7/1/2024 0:24	1	1.0000
7/1/2024 0:31	2	1.1429
7/1/2024 0:32	1	1.1429
7/1/2024 0:34	1	1.1429
7/1/2024 0:35	2	1.2857
7/1/2024 0:37	1	1.2857

GET THE TOTAL NUMBER OF CANCELLED RIDES BY CUSTOMERS

```sql
SELECT COUNT(*)
FROM BOOKINGS
WHERE BOOKING_STATUS = 'CANCELLED BY CUSTOMER' ;
```

	COUNT(*)
▶	2081

LIST THE TOP 5 CUSTOMERS WHO BOOKED THE HIGHEST NO OF RIDES

```sql
SELECT CUSTOMER_ID ,
COUNT(BOOKING_ID) AS TOTAL_RIDES
FROM OLA_BOOKING
GROUP BY CUSTOMER_ID
ORDER BY TOTAL_RIDES DESC LIMIT 5 ;
```
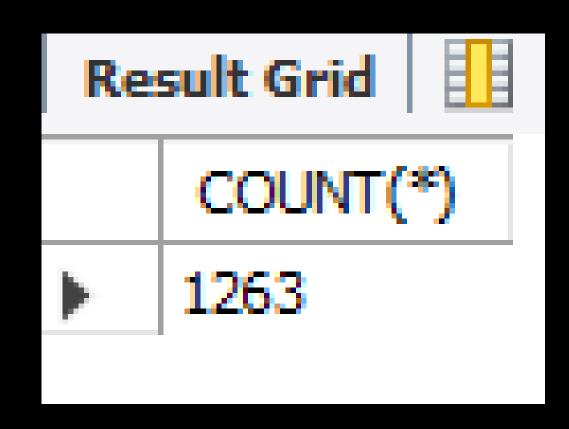
CUSTOMER_ID	TOTAL_RIDES
CID940408	3
CID908295	2
CID142342	2
CID737741	2
CID787190	2

GET THE NO OF RIDES CANCELLED BY DRIVERS DUE TO PERSONAL AND CAR -RELATED ISSUES

```sql
SELECT COUNT(*)
FROM OLA_BOOKING
WHERE CANCELED_RIDES_BY_DRIVER = 'PERSONAL & CAR RELATED ISSUE' ;
```

Result Grid

	COUNT(*)
▶	1263

FIND THE MAX AND MIN DRIVER RATINGS FOR PRIME SEDAN BOOKING

```sql
SELECT MAX(DRIVER_RATINGS)  AS MAX_DRIVER_RATING,
MIN(DRIVER_RATINGS) AS MIN_DRIVER_RATING
FROM OLA_BOOKING
WHERE VEHICLE_TYPE = 'PRIME SEDAN' ;
```

	MAX_DRIVER_RATING	MIN_DRIVER_RATING
▶	5	3

RETRIEVE ALL RIDES WHERE PAYMENT WAS MADE USING UPI

```sql
SELECT *  FROM OLA_BOOKING
WHERE PAYMENT_METHOD= 'UPI';
```

Date	Time	Booking_ID	Booking_Status	Customer_ID	Vehicle_Type	Pickup_Location	Drop_Location	V_TAT	C_TAT	Can
7/30/2024 19:59	19:59:00	CNR2982357879	Success	CID270156	Prime SUV	Sahakar Nagar	Varthur	238	130	NULL
7/13/2024 4:42	4:42:00	CNR8787177882	Success	CID802429	Mini	Kadugodi	Vijayanagar	231	90	NULL
7/27/2024 13:18	13:18:00	CNR4524472111	Success	CID540929	Auto	Cox Town	Yelahanka	126	35	NULL
7/16/2024 9:54	9:54:00	CNR8181602032	Success	CID167642	Bike	Indiranagar	MG Road	70	95	NULL
7/2/2024 10:25	10:25:00	CNR8090918544	Success	CID640151	Bike	Magadi Road	HSR Layout	126	95	NULL
7/9/2024 11:11	11:11:00	CNR9975925287	Success	CID162055	Prime SUV	Magadi Road	RT Nagar	42	30	NULL
7/19/2024 21:18	21:18:00	CNR4443921904	Success	CID654618	Mini	Tumkur Road	Koramangala	231	50	NULL
7/25/2024 3:44	3:44:00	CNR7194303296	Success	CID538245	Mini	Mysore Road	Hennur	175	50	NULL
7/15/2024 17:11	17:11:00	CNR6494005067	Success	CID805360	Auto	Yelahanka	Malleshwaram	84	60	NULL
7/14/2024 5:25	5:25:00	CNR7142279862	Success	CID378034	eBike	Yeshwanthpur	JP Nagar	210	45	NULL
7/3/2024 0:58	0:58:00	CNR5176704322	Success	CID296026	Prime Plus	KR Puram	Hennur	287	40	NULL
7/10/2024 21:56	21:56:00	CNR7547352327	Success	CID976231	Prime Plus	Hulimavu	Rajarajeshwa...	210	105	NULL

CALCULATE THE TOTAL BOOKING VALUE OF RIDES COMPLETED SUCCESSFULLY

```sql
SELECT
ROUND(AVG(CUSTOMER_RATING),2) AS AVG_CUSTOMER_RATING ,
SUM(BOOKING_VALUE) AS TOTAL_BOOKING_VALUE
FROM OLA_BOOKING
WHERE BOOKING_STATUS ='SUCCESS' ;
```

Result Grid | Filter Rows: | Expo

AVG_CUSTOMER_RATING	TOTAL_BOOKING_VALUE
3.99	6900234

LIST ALL INCOMPLETE RIDES ALONG WITH THE REASON

```sql
SELECT BOOKING_ID ,
INCOMPLETE_RIDES_REASON FROM OLA_BOOKING
WHERE INCOMPLETE_RIDES ='YES'
GROUP BY BOOKING_ID , INCOMPLETE_RIDES_REASON
 ;
```

BOOKING_ID	INCOMPLETE_RIDES_REASON
CNR5176704322	Customer Demand
CNR9312632867	Vehicle Breakdown
CNR7924302885	Customer Demand
CNR1640228587	Other Issue
CNR7623690602	Other Issue
CNR9590311980	Customer Demand
CNR5863244684	Customer Demand
CNR9526078867	Customer Demand
CNR7154043084	Customer Demand
CNR3193710797	Other Issue
CNR7073850950	Customer Demand
CNR9952584604	Customer Demand
CNR5433575259	Vehicle Breakdown