Swiggy SQL project: Order and Delivery Details:-



Project Overview

This project involves the creation and analysis of a dummy dataset resembling the operations of Swiggy, one of India's leading food delivery platforms. The dataset captures key aspects of the food delivery ecosystem, including customer orders, restaurant details, delivery times, ratings, and performance of delivery partners. By simulating real-world data, the objective is to apply intermediate-level SQL queries to derive valuable business insights.

Create table after connecting to the database:-

```
CREATE TABLE Swiggy_dummy_dataset (
    Order_ID INT PRIMARY KEY,
    City VARCHAR(100),
    Restaurant VARCHAR(100),
    Dish VARCHAR(100),
    Customer_ID INT,
    Order_Date DATE,
    Delivery_Partner_ID INT,
    Delivery_Time_Minutes INT,
    Order_Amount DECIMAL(10, 2),
    Customer_Rating DECIMAL(2, 1),
    Order_Status VARCHAR(50),
    Is_On_Time BOOLEAN
);
```

First View of Dataset:-

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ord [PK]	er_id] integer	,	city chara	ıcter var	ying (100)	restaurant character varying (100)	dish character varying (100)	customer_id integer	order_date /	delivery_partner_id integer	delivinte	rery_time_minutes ger	oi ni	rder_amount umeric (10,2)	1	nı
		1	Pune				Tandoori Spot	Masala Dosa	122	2025-01-05	:	229	1	15	228		
		2	Mum	bai			Burger Stop	Rasgulla	186	2024-06-03		239	4	11	540	.33	
		3	Delhi				Noodle Bar	Rasgulla	127	2025-04-09	:	223	6	50	362	.90	
		4	Pune				Sweet Treats	Veg Pizza	117	2024-08-08		223	2	21	672	.85	
		5	Delhi				Pizza Corner	Masala Dosa	123	2025-02-03		223	4	15	305	.96	
		6	Ahm	edabad			Tandoori Spot	Chicken Biryani	106	2025-01-01		233	5	56	379	.91	
		7	Hyde	rabad			Biryani House	Chicken Biryani	136	2024-09-27		234	5	50	571	.66	
		8	Hyde	rabad			Pizza Corner	Cheese Burger	198	2024-06-28		239	4	16	279	.27	
		9	Ahm	edabad			Noodle Bar	Chicken Biryani	105	2024-08-31		221	3	39	548	3.50	



SQL Queries for Business insights:-

1. What is the average delivery time and average customer rating for each city?

```
SELECT City,
          AVG(Delivery_Time_Minutes) AS Avg_Delivery_Time,
          AVG(Customer_Rating) AS Avg_Rating
FROM Swiggy_dummy_dataset
GROUP BY City;
```

Output:-

	city character varying (100)	avg_delivery_time numeric	avg_rating numeric
1	Bangalore	39.3529411764705882	2.9352941176470588
2	Mumbai	33.8666666666666667	3.3400000000000000
3	Kolkata	38.7142857142857143	3.35000000000000000
4	Chennai	36.1538461538461538	2.6884615384615385
5	Delhi	41.50000000000000000	2.85555555555556
6	Pune	36.944444444444444	3.338888888888888
7	Hyderabad	38.5882352941176471	3.0117647058823529
8	Ahmedabad	38.12000000000000000	2.8800000000000000

2. Which restaurant had the highest average order amount in 2024?

OUTPUT:-

	restaurant character varying (100)	avg_order_amount numeric
1	Tandoori Spot	470.25

3. Find the number of orders delivered on time vs late for each delivery partner.

Output: -

	delivery_partner_id integer	on_time_orders bigint	late_orders bigint
1	209	1	2
2	235	1	0
3	239	4	6
4	229	2	3
5	225	1	1
6	206	3	1
7	205	0	5
8	240	1	0
9	224	2	2
10	201	1	3
11	214	4	1
12	230	1	1

4. Identify the top 3 most ordered dishes in terms of order count.

```
SELECT Dish, COUNT(*) AS Order_Count
FROM Swiggy_dummy_dataset
GROUP BY Dish
ORDER BY Order_Count DESC
LIMIT 3;
```

Output:-

	dish character varying (100)	order_count bigint
1	Hakka Noodles	32
2	Veg Pizza	26
3	Paneer Tikka	21

5. Which city has the highest percentage of late deliveries?

Output: -

	city character varying (100)	late_percentage numeric
1	Mumbai	73.33

6. Show the monthly total revenue generated in 2024.

Output: -

	month timestamp with time zone	total_revenue numeric
1	2024-05-01 00:00:00+05:30	2437.08
2	2024-06-01 00:00:00+05:30	6789.12
3	2024-07-01 00:00:00+05:30	3691.91
4	2024-08-01 00:00:00+05:30	7071.45
5	2024-09-01 00:00:00+05:30	6305.21
6	2024-10-01 00:00:00+05:30	5323.33
7	2024-11-01 00:00:00+05:30	4274.60
8	2024-12-01 00:00:00+05:30	2873.98

7. Which delivery partner has the lowest average delivery time?

Output:-



8. Find customers who have given a rating below 2 more than once.

```
SELECT Customer_ID, COUNT(*) AS Low_Rating_Count
FROM Swiggy_dummy_dataset
WHERE Customer_Rating < 2
GROUP BY Customer_ID
HAVING COUNT(*) > 1;
```

Output: -

	customer_id integer	low_rating_count bigint
1	150	2
2	122	2
3	127	2
4	110	2
5	199	2
6	149	2
7	151	2

9. List restaurants where the majority of their orders were not delivered on time.

```
SELECT Restaurant
FROM Swiggy_dummy_dataset
GROUP BY Restaurant
HAVING SUM(CASE WHEN Is_On_Time THEN 1 ELSE 0 END) < SUM(CASE WHEN NOT Is_On_Time THEN 1 ELSE 0 END);</pre>
```

Output: -

	restaurant character varying (100)
1	Noodle Bar
2	Burger Stop
3	South Spice
4	Sweet Treats
5	Biryani House

10. Find the top 5 customers by total spend and show their average rating.

Output:-

	customer_id integer	total_spend numeric	avg_rating numeric
1	115	2297.52	3.48
2	114	1885.09	3.70
3	150	1835.56	1.63
4	124	1794.98	3.67
5	149	1773.70	2.18

★ Conclusion



Through this project, we explored a simulated Swiggy food delivery dataset using intermediate-level SQL queries. Each query was designed to extract valuable insights about customer behavior, restaurant performance, and delivery efficiency. By analyzing various dimensions such as average delivery times, customer ratings, top dishes, and on-time delivery metrics, we demonstrated how SQL can be effectively used in real-world business scenarios.

This project not only strengthened practical SQL skills but also provided a clear understanding of how data-driven decisions can improve operations in the food delivery industry.