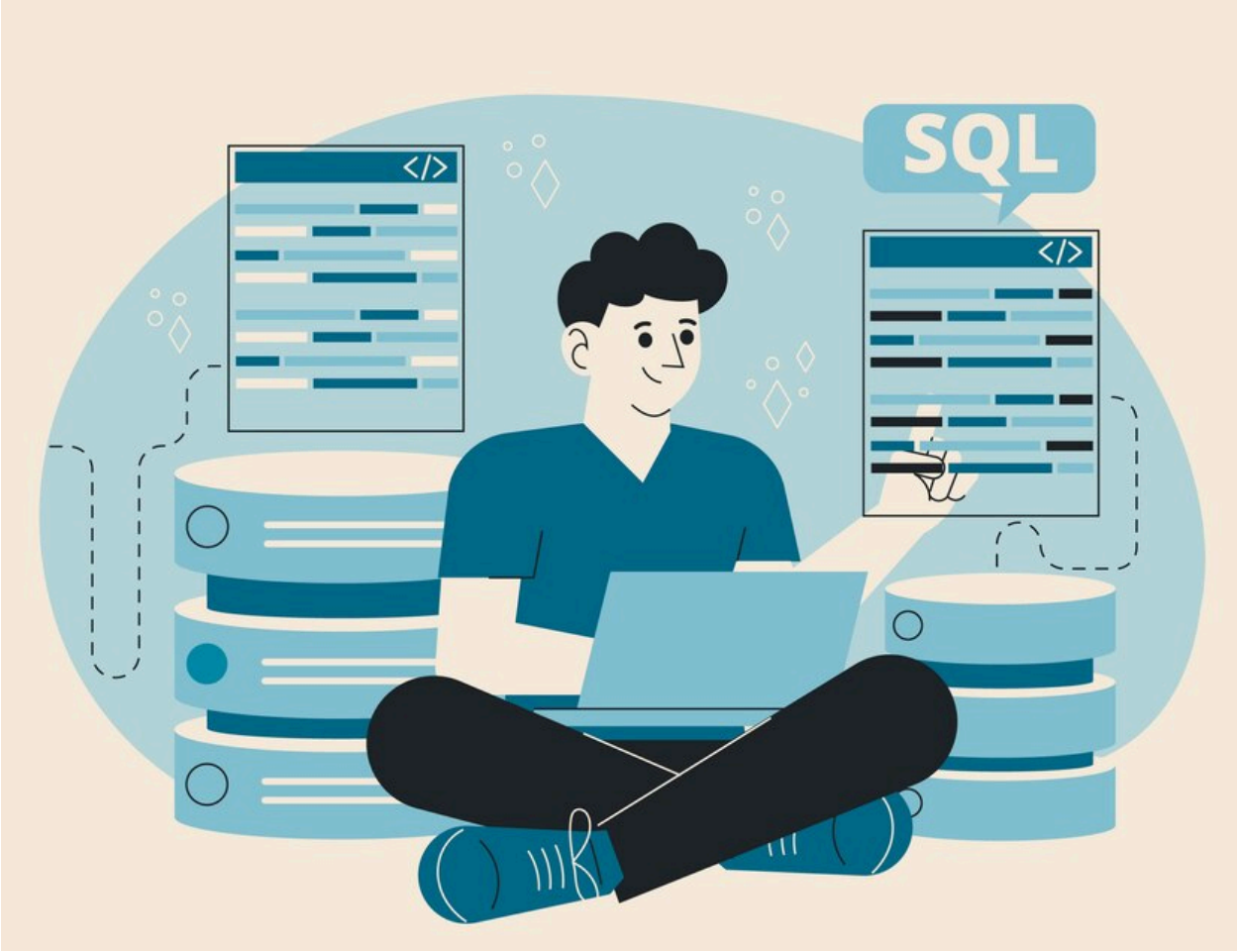
Swiggy SQL Project



Create Table after connecting to the Database

Swiggy SQL Project

```sql
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

```sql
SELECT * FROM swiggy_dummy_dataset
```

Data Output | Messages | Notifications

	order_id [PK] integer	city character varying (100)	restaurant character varying (100)	dish character varying (100)	customer_id integer	order_date date	delivery_partner_id integer	delivery_time_minutes integer	order_amount numeric (10,2)
1	1	Pune	Tandoori Spot	Masala Dosa	122	2025-01-05	229	15	228.54
2	2	Mumbai	Burger Stop	Rasgulla	186	2024-06-03	239	41	540.33
3	3	Delhi	Noodle Bar	Rasgulla	127	2025-04-09	223	60	362.90
4	4	Pune	Sweet Treats	Veg Pizza	117	2024-08-08	223	21	672.85
5	5	Delhi	Pizza Corner	Masala Dosa	123	2025-02-03	223	45	305.96
6	6	Ahmedabad	Tandoori Spot	Chicken Biryani	106	2025-01-01	233	56	379.91
7	7	Hyderabad	Biryani House	Chicken Biryani	136	2024-09-27	234	50	571.66
8	8	Hyderabad	Pizza Corner	Cheese Burger	198	2024-06-28	239	46	279.27

Swiggy SQL Project

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;
```

	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	3.3500000000000000
4	Chennai	36.1538461538461538	2.6884615384615385
5	Delhi	41.5000000000000000	2.8555555555555556
6	Pune	36.9444444444444444	3.3388888888888889
7	Hyderabad	38.5882352941176471	3.0117647058823529
8	Ahmedabad	38.1200000000000000	2.8800000000000000

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

Swiggy SQL Project

```
24  SELECT Restaurant,
25         round(AVG(Order_Amount),2) AS Avg_Order_Amount
26  FROM Swiggy_dummy_dataset
27  WHERE EXTRACT(YEAR FROM Order_Date) = 2024
28  GROUP BY Restaurant
29  ORDER BY Avg_Order_Amount DESC
30  LIMIT 1;
```

Data Output | Messages | Notifications

	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.

Swiggy SQL Project

```sql
SELECT Delivery_Partner_ID,
       SUM(CASE WHEN Is_On_Time THEN 1 ELSE 0 END) AS On_Time_Orders,
       SUM(CASE WHEN NOT Is_On_Time THEN 1 ELSE 0 END) AS Late_Orders
FROM Swiggy_dummy_dataset
GROUP BY Delivery_Partner_ID;
```

Data Output | Messages | Notifications

	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

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

Swiggy SQL Project

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

Data Output | Messages | Notifications

	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?

```sql
SELECT City,
       round(100.0 * SUM(CASE WHEN NOT Is_On_Time THEN 1 ELSE 0 END) / COUNT(*),2) AS Late_Percentage
FROM Swiggy_dummy_dataset
GROUP BY City
ORDER BY Late_Percentage DESC
LIMIT 1;
```

Data Output | Messages | Notifications

	city character varying (100)	late_percentage numeric
1	Mumbai	73.33

6. Show the monthly total revenue generated in 2024.

Swiggy SQL Project

```sql
SELECT DATE_TRUNC('month', Order_Date) AS Month,
       SUM(Order_Amount) AS Total_Revenue
FROM Swiggy_dummy_dataset
WHERE EXTRACT(YEAR FROM Order_Date) = 2024
GROUP BY DATE_TRUNC('month', Order_Date)
ORDER BY Month;
```

Data Output | Messages | Notifications

	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?

Swiggy SQL Project

```
61  SELECT Delivery_Partner_ID,
62         round(AVG(Delivery_Time_Minutes),2) AS Avg_Delivery_Time
63  FROM Swiggy_dummy_dataset
64  GROUP BY Delivery_Partner_ID
65  ORDER BY Avg_Delivery_Time
66  LIMIT 1;
```

Data Output | Messages | Notifications

	delivery_partner_id integer	avg_delivery_time numeric
1	250	17.50

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

Swiggy SQL Project

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

Data Output | Messages | Notifications

	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.

Swiggy SQL Project

```sql
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);
```

Data Output | Messages | Notifications

	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.

Swiggy SQL Project

```sql
SELECT Customer_ID,
       SUM(Order_Amount) AS Total_Spend,
       round(AVG(Customer_Rating),2) AS Avg_Rating
FROM Swiggy_dummy_dataset
GROUP BY Customer_ID
ORDER BY Total_Spend DESC
LIMIT 5;
```

Data Output | Messages | Notifications

	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.

Swiggy SQL Project

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.