

"SWIGGY DATA ANALYSIS AND INSIGHTS USING SQL"



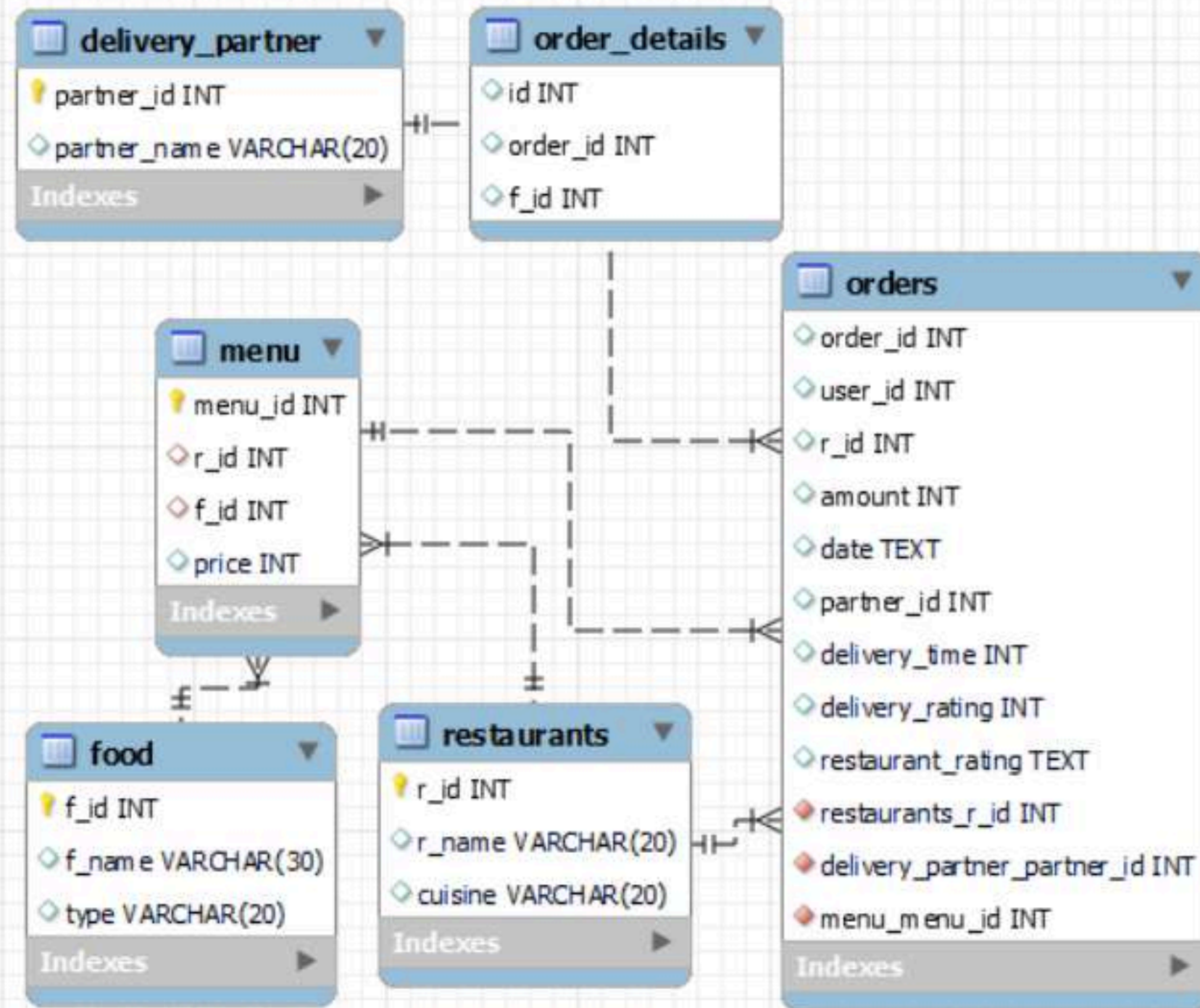
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OBJECTIVES

- **Customer Behavior Analysis:** Identify and segment customers based on their ordering habits, including identifying inactive customers.
- **Pricing Insights:** Analyze dish pricing trends to provide insights for optimizing menu pricing.
- **Performance Metrics:** Evaluate restaurant performance by analyzing order counts and customer retention rates.
- **Revenue Analysis:** Track Swiggy's revenue growth trends and identify key drivers.
- **Sales Optimization:** Identify high-performing restaurants with significant sales and repeated customers.
- **Customer Preferences:** Understand customer preferences to tailor offerings, focusing on their favorite dishes.



DATABASE SCHEMA



QUESTION 1

Find customers who have never ordered.

```
SELECT name FROM users  
WHERE user_id NOT IN (SELECT user_id FROM orders);
```

	name
▶	Anupama
	Rishabh



QUESTION 2

Average Price/dish

```
SELECT f.f_name AS food_name, AVG(price) AS average_price
FROM menu m
JOIN food f
ON m.f_id=f.f_id
GROUP BY f.f_name;
```

	food_name	average_price
►	Non-veg Pizza	450.0000
	Veg Pizza	400.0000
	Choco Lava cake	98.3333
	Chicken Wings	230.0000
	Chicken Popcorn	300.0000
	Rice Meal	213.3333
	Roti meal	140.0000



QUESTION 3

Find top restaurant in terms of number of orders for a given month.

```
SELECT r.r_name AS restaurant_name, COUNT(order_id) AS orders_quantity
FROM orders o
JOIN restaurants r
ON o.r_id = r.r_id
WHERE MONTHNAME(date) LIKE 'July'
GROUP BY o.r_id
ORDER BY orders_quantity DESC
LIMIT 1;
```

	restaurant_name	orders_quantity
►	kfc	3

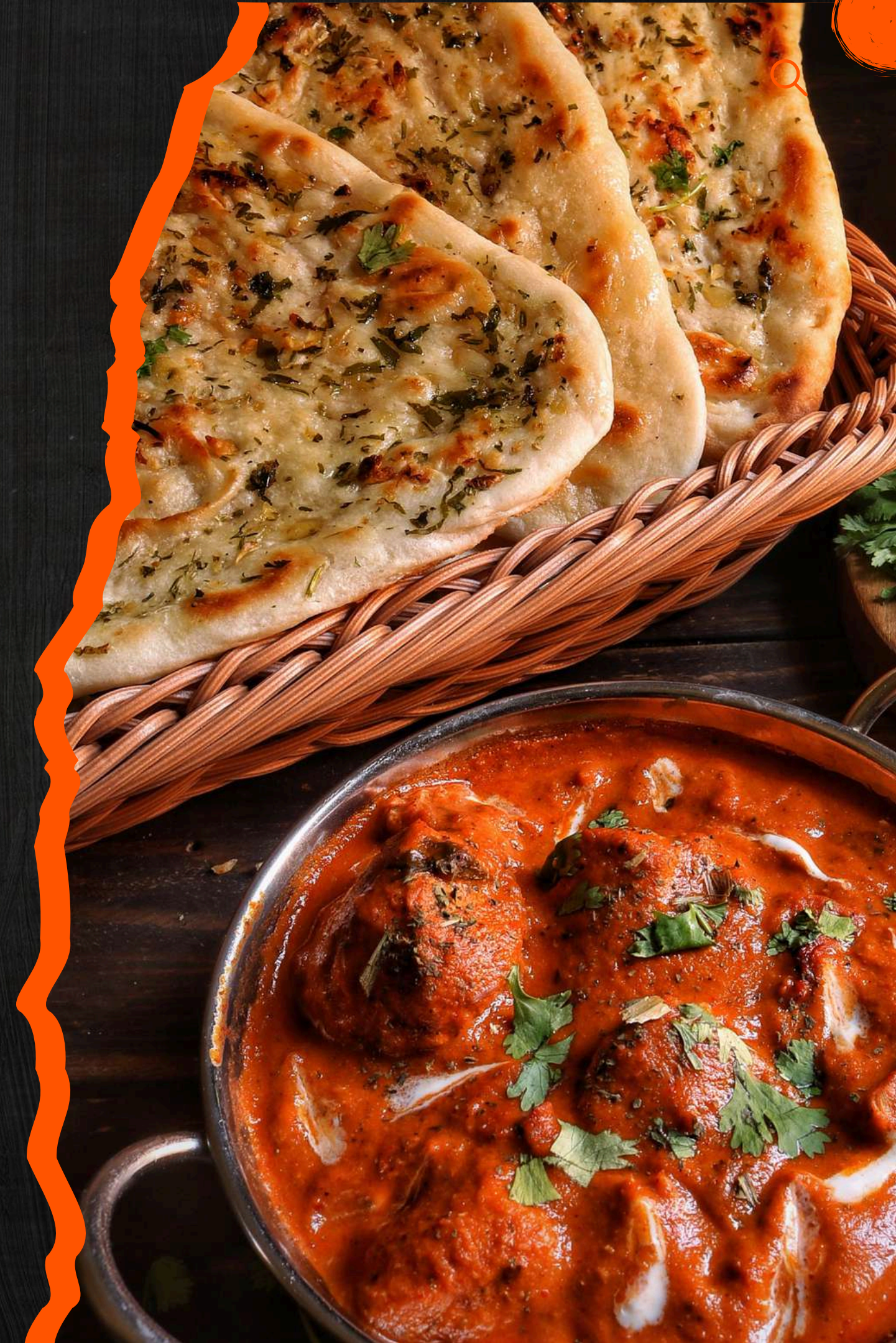


QUESTION 4

Restaurants with monthly sales greater than x.

```
SELECT r.r_name, SUM(amount) AS revenue
FROM orders o
JOIN restaurants r
ON o.r_id = r.r_id
WHERE MONTHNAME(date) LIKE 'May'
GROUP BY o.r_id
HAVING revenue > 700;
```

	r_name	revenue
►	dominos	1000
	Dosa Plaza	780



QUESTION 5

Show all orders with order details for a particular customer in a particular data range.

```
SELECT o.order_id, r.r_name restaurant_name, f_name
FROM orders o
JOIN restaurants r
ON r.r_id = o.r_id
JOIN order_details od
ON o.order_id = od.order_id
JOIN food f
ON f.f_id = od.f_id
WHERE user_id = (SELECT user_id FROM users WHERE name LIKE 'Ankit')
AND (date > '2022-06-10' AND date < '2022-07-10');
```

	order_id	restaurant_name	f_name
▶	1018	Dosa Plaza	Schezwan Noodles
	1018	Dosa Plaza	Veg Manchurian
	1019	China Town	Schezwan Noodles
	1019	China Town	Veg Manchurian



QUESTION 6

Find restaurants with max repeated customers.

```
SELECT r.r_name, COUNT(*) AS 'loyal_customers'
FROM (
    SELECT r_id, user_id, COUNT(*) AS visits
    FROM orders
    GROUP BY r_id, user_id
    HAVING visits>1
) t
JOIN restaurants r
ON r.r_id = t.r_id
GROUP BY t.r_id
ORDER BY loyal_customers DESC
LIMIT 1;
```

	r_name	loyal_customers
►	kfc	2



QUESTION 7

Month over month revenue growth of swiggy.

```
SELECT month, ((revenue - prev)/prev*100) AS revenue_growth FROM (  
  WITH sales AS  
  (  
    SELECT MONTHNAME(date) AS month, SUM(amount) AS revenue  
    FROM orders  
    GROUP BY month  
    ORDER BY month  
  )  
  SELECT month, revenue, LAG(revenue,1) OVER(ORDER BY revenue) AS prev FROM sales  
) t;
```

	month	revenue_growth
►	May	NULL
	June	32.7835
	July	50.4658



QUESTION 8

Customers favorite food.

```
WITH temp AS
(
    SELECT o.user_id, od.f_id, COUNT(*) AS frequency
    FROM orders o
    JOIN order_details od
    ON o.order_id = od.order_id
    GROUP BY o.user_id, od.f_id
)
SELECT u.name, f.f_name, t1.frequency
FROM temp t1
JOIN users u
ON u.user_id = t1.user_id
JOIN food f
ON f.f_id = t1.f_id
WHERE t1.frequency = (
    SELECT MAX(frequency)
    FROM temp t2
    WHERE t2.user_id = t1.user_id
);
```

	name	f_name	frequency
►	Nitish	Choco Lava cake	5
	Khushboo	Choco Lava cake	3
	Vartika	Chicken Wings	3
	Ankit	Schezwan Noodles	3
	Ankit	Veg Manchurian	3
	Neha	Choco Lava cake	5