

Swiggy SQL Case Study



Introduction

This case study explores the use of SQL to analyze business performance metrics and gain actionable insights. The focus is on key aspects such as restaurant revenue, top customers, average delivery partner ratings, and popular food items. By leveraging SQL queries, the study aims to empower data-driven decision-making and improve operational efficiency.

Objectives

- Analyze restaurant revenue trends to identify growth opportunities.
- Determine the top-performing customers based on order frequency and spending.
- Evaluate the average ratings of delivery partners to assess service quality.
- Identify the most popular food items to optimize menu offerings.
- Provide insights to enhance customer satisfaction and streamline operations.

Outcomes

- Comprehensive analysis of restaurant revenue, highlighting high-performing locations.
- A ranked list of top customers with their purchase patterns.
- Insights into delivery partner performance through average rating analysis.
- Identification of the most frequently ordered and popular food items.
- Actionable recommendations to enhance overall business efficiency and profitability.

www.swiggy.com



Customers who have never ordered

```
select u.user_id, u.name  
from users as u  
left join orders as o  
on u.user_id = o.user_id  
where o.user_id is null
```

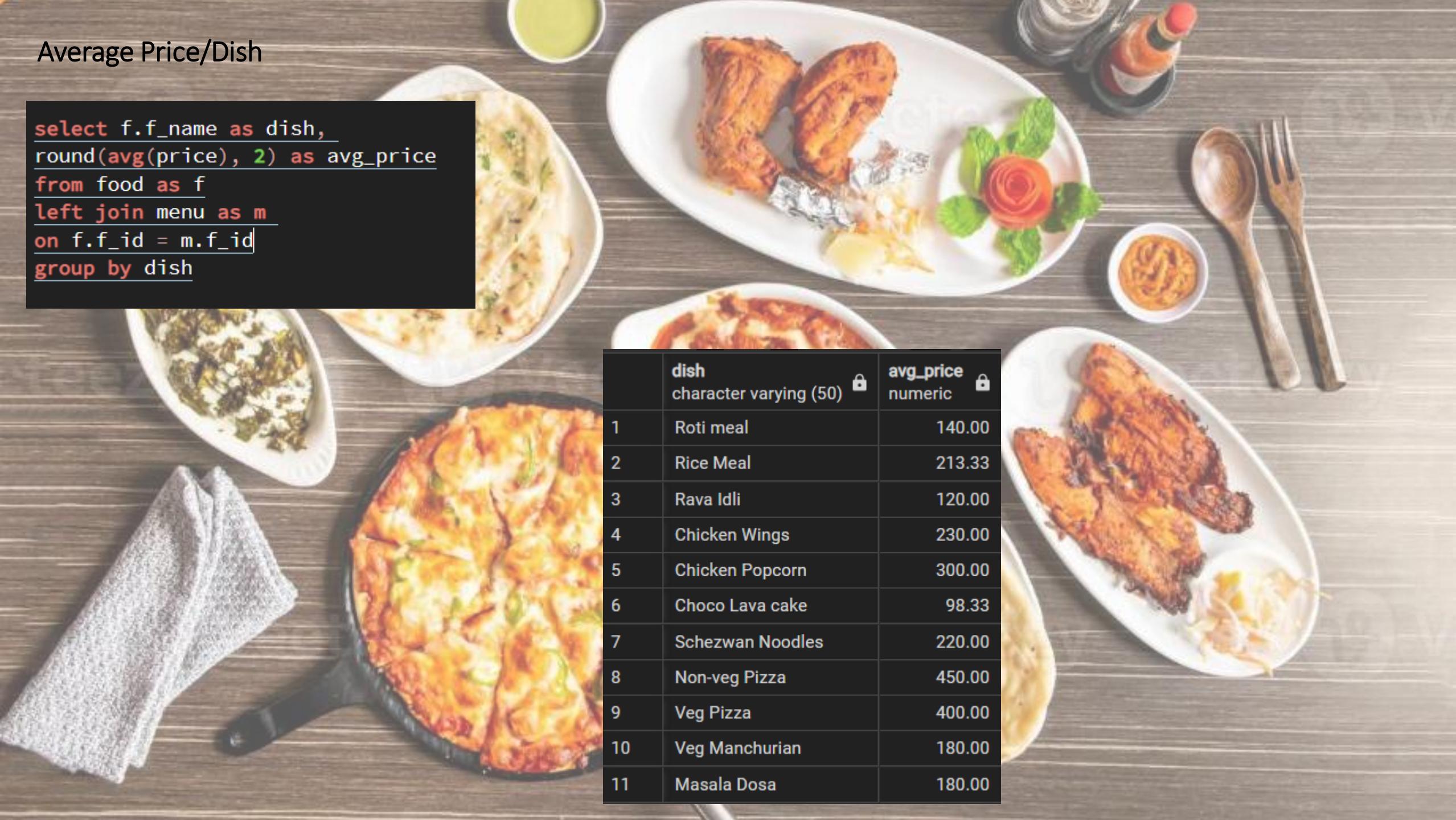
	user_id	name
	integer	character varying (50)
1	6	Anupama
2	7	Rishab



Average Price/Dish

```
select f.f_name as dish,  
round(avg(price), 2) as avg_price  
from food as f  
left join menu as m  
on f.f_id = m.f_id  
group by dish
```

	dish character varying (50)	avg_price numeric
1	Roti meal	140.00
2	Rice Meal	213.33
3	Rava Idli	120.00
4	Chicken Wings	230.00
5	Chicken Popcorn	300.00
6	Choco Lava cake	98.33
7	Schezwan Noodles	220.00
8	Non-veg Pizza	450.00
9	Veg Pizza	400.00
10	Veg Manchurian	180.00
11	Masala Dosa	180.00



Find top restaurants in terms of number of orders for a given month

```
select r.r_name as restaurant_name,  
       count(o.order_id) as total_orders  
  from restaurants as r  
left join orders as o  
    on o.r_id = r.r_id  
   where DATE_PART('month', o.date) = 5  
     and DATE_PART('year', o.date) = 2022  
group by r.r_name  
order by total_orders desc  
limit 3;
```

	restaurant_name character varying (20)	total_orders bigint
1	Dosa Plaza	3
2	dominos	2
3	kfc	2

Restaurants with Monthly sales > 500

```
SELECT
    r.r_name AS restaurant_name,
    SUM(od.amount) AS revenue
FROM
    restaurants AS r
JOIN
    orders AS od
ON
    r.r_id = od.r_id
WHERE extract(month from od.date) = 6
GROUP BY
    r.r_name
HAVING
    SUM(od.amount) > 500
```

	restaurant_name character varying (20)	revenue bigint
1	dominos	950
2	kfc	990

Month over month revenue by Swiggy

```
select
    extract(month from orders.date) as month,
    sum(amount) as monthly_revenue
from orders
group by
    extract(month from orders.date)
order by month asc
```

	month numeric	monthly_revenue bigint
1	5	2425
2	6	3220
3	7	4845

Average delivery time taken by each delivery partner

```
select d.partner_id,  
       d.partner_name as delivery_partner,  
       round(avg(o.delivery_time),2) as avg_delivery_time  
  from delivery_partner as d  
  join orders as o  
    on d.partner_id = o.partner_id  
 group by d.partner_id, d.partner_name
```

	partner_id integer	delivery_partner character varying (20)	avg_delivery_time numeric
1	2	Amit	39.67
2	3	Lokesh	34.50
3	1	Suresh	46.14
4	5	Gyandeep	29.25
5	4	Kartik	41.50

Top 5 Favourite Foods

```
select f.f_name, count(o.f_id) as order_counts
from order_details as o
left join food as f on
f.f_id = o.f_id
group by f_name
order by order_counts desc
```

	f_name character varying (50)	order_counts bigint
1	Choco Lava cake	13
2	Chicken Wings	8
3	Non-veg Pizza	5
4	Masala Dosa	4
5	Rice Meal	4



Average rating of Restaurants

```
select r.r_name as restaurant_name,  
round(avg(o.restaurant_rating),2) as rating  
from orders as o  
left join restaurants as r  
on r.r_id = o.r_id  
group by r.r_name  
order by rating desc
```

	restaurant_name character varying (20)	rating numeric
1	box8	4.67
2	Dosa Plaza	3.67
3	China Town	3.67
4	kfc	2.20
5	dominos	1.67

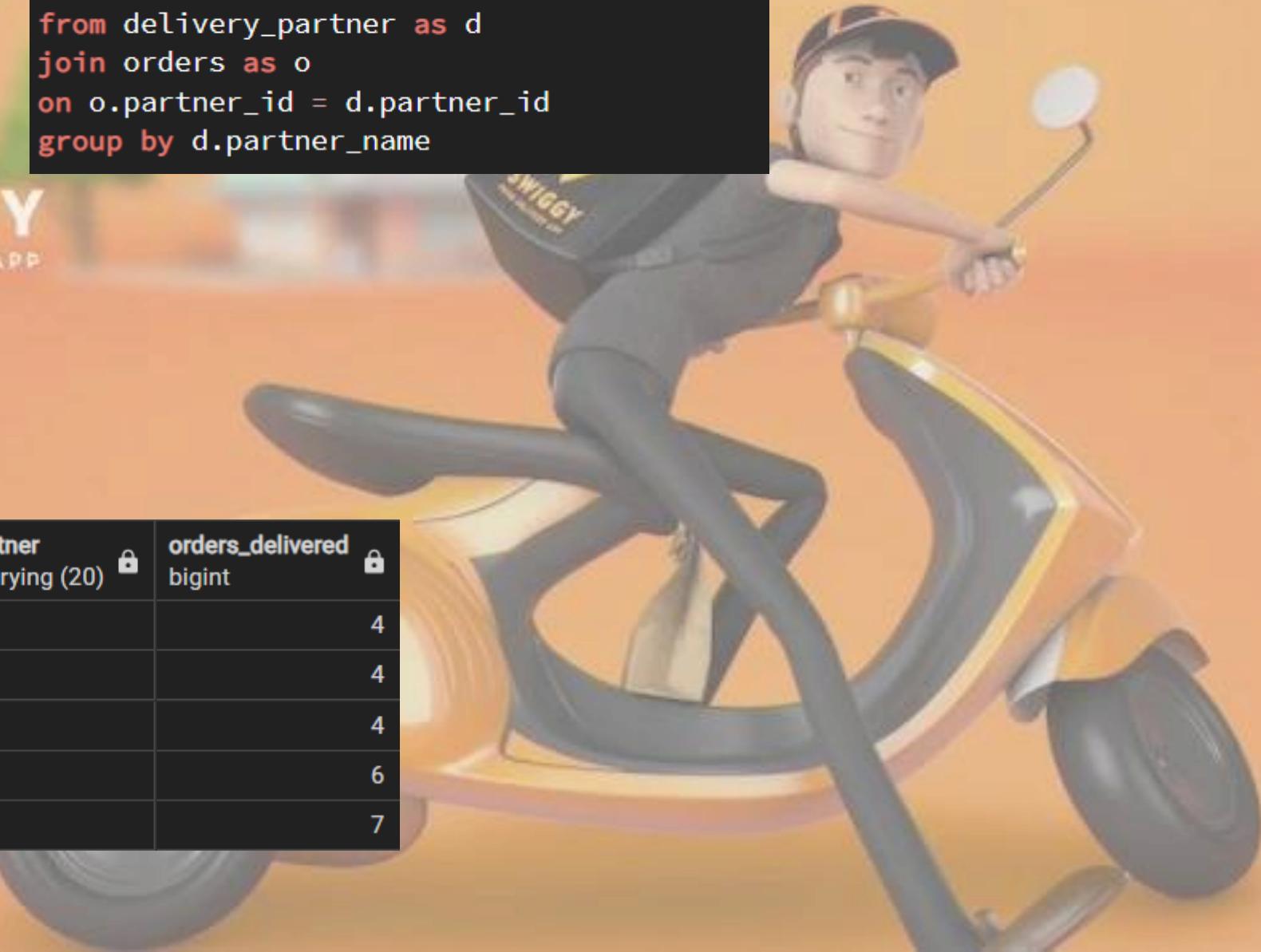
Number of orders delivered by each delivery partner



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```
select d.partner_name as delivery_partner,  
count(o.order_id) as orders_delivered  
from delivery_partner as d  
join orders as o  
on o.partner_id = d.partner_id  
group by d.partner_name
```

	delivery_partner character varying (20)	orders_delivered bigint
1	Lokesh	4
2	Gyandeep	4
3	Kartik	4
4	Amit	6
5	Suresh	7



Total revenue generated by each restaurants

```
select r.r_name as restaurant_name,  
       sum(o.amount) as total_revenue  
  from restaurants as r  
 join orders as o on  
 r.r_id = o.r_id  
 group by r.r_name  
 order by total_revenue desc
```

	restaurant_name character varying (20)	total_revenue bigint
1	kfc	3570
2	dominos	3050
3	Dosa Plaza	1480
4	China Town	1450
5	box8	940

Number of orders by each customer

```
select u.user_id,  
       u.name as customer_name,  
       count(o.order_id) as orders_count  
  from users as u  
left join orders as o  
    on u.user_id = o.user_id  
group by u.user_id, u.name  
order by orders_count desc
```

	user_id integer	customer_name character varying (50)	orders_count bigint
1	5	Neha	5
2	3	Vartika	5
3	2	Khushboo	5
4	4	Ankit	5
5	1	Nitish	5
6	7	Rishab	0
7	6	Anupama	0

Average rating of delivery partner

```
select o.partner_id, d.partner_name,  
round(avg(delivery_rating),1) as average_rating  
from orders as o  
join delivery_partner as d on  
o.partner_id = d.partner_id  
group by o.partner_id, d.partner_name  
order by o.partner_id asc
```



	partner_id integer	partner_name character varying (20)	average_rating numeric
1	1	Suresh	2.9
2	2	Amit	3.0
3	3	Lokesh	4.0
4	4	Kartik	3.0
5	5	Gyandeep	3.5

