

Pizza Revenue Generation Findings in SQL

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PROJECT IN SQL



Project overview

- Analyzing sales revenue trends as per category and dates
- Optimizing sales strategies as per the given data
- Get detailed analysis on the revenue generated to determine sales optimization strategies

Data Collection

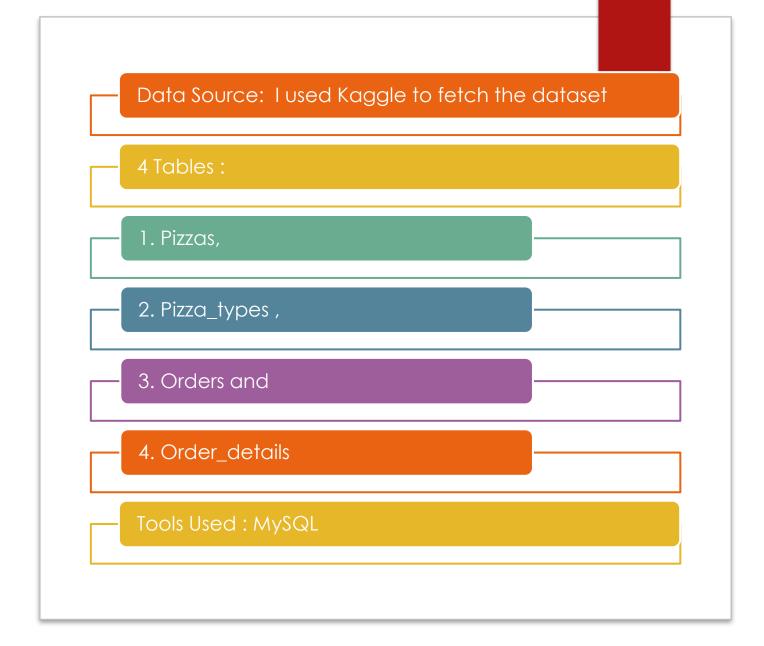
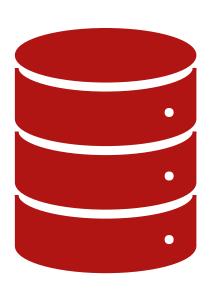


Table columns details

1. Pizzas Table	2. Order_details Table	3. Pizza_types	4.orders
Columns	Columns	Columns	Colums
Pizza_id,	order_details_id	Pizza_type_id	Order_id
Pizza_type_id,	Order_id	Name	Date
Size	Pizza_id	Category	Time
Price	Quantity	Ingredients	

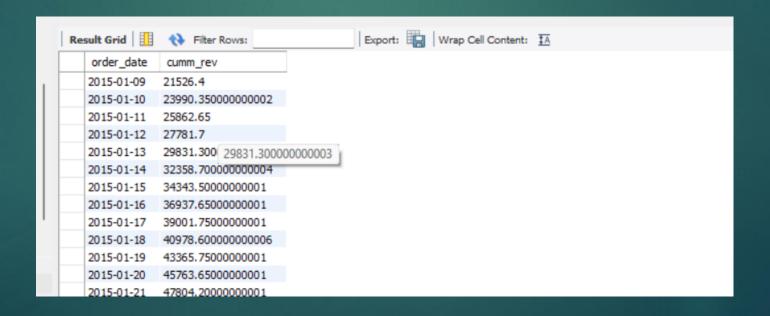


SQL Queries

1: Analyze the cumulative revenue generate over time

```
select order_date, sum(revenue) over(order by order_date) as cumm_rev
from

(select orders.order_date, sum(order_details.quantity * pizzas. price) as revenue
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as Sales;
```



3: Determine 3 most ordered pizza based on the revnue

```
Select pizza_types.name, sum(order_details.quantity * pizzas.price) as total_revenue

from pizza_types join pizzas

on pizza_types.pizza_type_id = pizzas.pizza_type_id

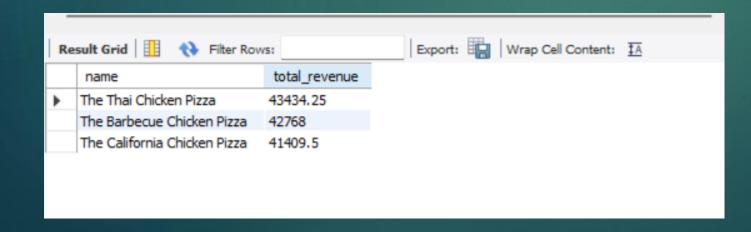
join order_details

on order_details.pizza_id = pizzas.pizza_id

group by 1

order by total_revenue desc

limit 3;
```



2: Calculate the percetage contribution of each pizza type to total revenue

```
select pizza_types.category,

(sum(order_details.quantity*pizzas.price) /

(select sum(order_details.quantity*pizzas.price)

from order_details join pizzas

on order_details.pizza_id = pizzas.pizza_id) * 100 ) as revenue

from pizza_types join pizzas

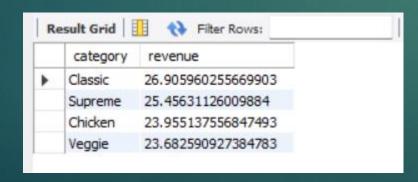
on pizza_types.pizza_type_id = pizzas.pizza_type_id

join order_details

on order_details.pizza_id = pizzas.pizza_id

group by pizza_types.category

order by revenue desc;
```



4: group the orders by date and calculate avg number of pizzas ordered per day

```
• SELECT

ROUND(AVG(quantity), 0)

FROM

○ (SELECT

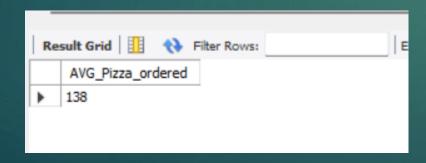
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

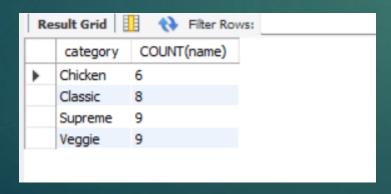
GROUP BY orders.order_date) AS pizza_quantity;
```



5: join the relavent tables for category wise distribution of pizzas

```
• SELECT
category, COUNT(name)

FROM
pizza_types
GROUP BY 1;
```



6: Determine the distribution of oders by the hour of the day

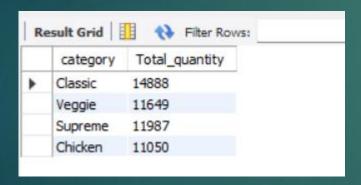
```
FROM
orders
GROUP BY HOUR(order_time);

SELECT
HOUR(order_time) as hour , COUNT(order_id) as order_count
orders
orders
```

	hour	order_count	
•	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	
	22	663	
	23	28	
	40	2	

7: join the neccesary tables to find the total quantity of each pizza category ordered

```
select pizza_types.category, sum(order_details.quantity) as Total_quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category;
```



8: list top 5 most common pizza types along with their quantities

```
SELECT

pizza_types.name,

SUM(order_details.quantity) AS total_quantity

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY 1

ORDER BY total_quantity DESC

LIMIT 5;
```

	name	total_quantity
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

9: Identify the most commonly ordered pizza size

```
SELECT

pizzas.size,

COUNT(order_details.order_details_id) AS order_count

FROM

pizzas

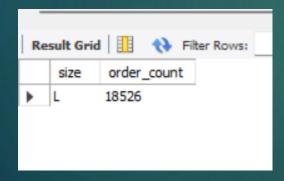
JOIN

order_details ON Pizzas.pizza_id = order_details.pizza_id

GROUP BY 1

ORDER BY order_count DESC

LIMIT 1;
```

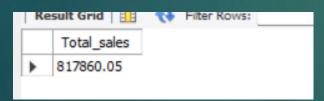


10: Identify the highest price pizza



11: Calculate total revenue generated from pizza sales

```
SELECT
    round(SUM(order_details.quantity * pizzas.price),2) AS Total_sales
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```



12: Retrieve the total number of orders placed

```
SELECT

COUNT(order_id) AS Total_orders

FROM

orders;
```



Conclusion and key findings



- ▶ 1.)Five common most pizzas ordered are
- Classic Deluxe pizza, Barbecue chicken pizza, The Hawaiian Pizza, The Pepperoni pizza, The Thai Chicken Pizza
- 2) Classic pizza has been ordered the most
- 3) Average of 138 pizzas have been ordered per day
- 4) The Thai Chicken pizza has generated highest revenue amongst all pizzas, which is 43434.25
- 5) Total Revenue generated from the Pizza sales is: 817860.05
- 6) Highest Priced Pizza is Greek pizza with the prize of 35.95
- 7) Most commonly ordered pizza is "L" sized pizza