

PIZZA SALE SQL

Projet Title: SQL PIZZA SALES ANALYSIS PROJECT

Tool Used : My Sql

Dataset Source : Mock Data

Key Objectives : Sales Analysis

Main SQL Concepts Used:

- **Joins**
- **Subqueries**

Top Insight :

Analysed Pizza Sales Data Using SQL To Uncover key BusinessInsights LikeTop-Selling Pizzas, Pick Order Times And Revenue Contribution

PIZZA SALE SQL

This dataset represents pizza sales transactions of a pizza store.

It captures orders, order details, pizza types, sizes, and prices, allowing analysis of:

Sales trends

Revenue

Customer ordering behavior

Popular pizzas & categories

The dataset consists of 4 tables.

orders Table

Purpose: Stores high-level order information.

order_details Table

Purpose: Stores details of pizzas ordered in each order.

pizzas Table

Purpose: Stores pizza size and pricing information.

pizza_types Table

Purpose: Stores descriptive details of pizzas.

PIZZA SALE - SQL

Example Business Questions You Can Answer

Total revenue generated

Most popular pizza type & size

Sales by category

Peak order hours

Top-selling pizzas

Average order value

```
-- Retrieve the total number of orders placed.
```

```
SELECT
```

```
    COUNT(order_id) AS total_orders
```

```
FROM
```

```
    orders;
```

	total_orders
▶	21350

```
    od.quantity, p.price, (od.quantity * p.price) AS Sales
```

```
FROM
```

```
    order_details od
```


```
        INNER JOIN
```

```
    pizzas p ON od.pizza_id = p.pizza_id;
```

```
select round(sum((od.quantity*p.price)),2) as Total_Revenue
```

```
from order_details od
```

```
inner join  pizzas p on od.pizza_id = p.pizza_id;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	Total_Revenue
--	---------------

```
-- Identify the highest-priced pizza.--
```

```
SELECT
```

```
    pizza_types.name, pizzas.price
```

```
FROM
```

```
    pizza_types
```

```
    INNER JOIN
```

```
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

```
ORDER BY pizzas.price DESC
```

```
LIMIT 1;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	name	price
▶	The Greek Pizza	35.95

```
-- Identify the most common pizza size ordered
```

```
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 pizzas.size
```

```
ORDER BY Order_count DESC;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	size	Order_count
▶	L	18526
	M	15385
	S	14137
	XL	544

-- List the top 5 most ordered pizza types along with their quanti

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS TOTAL_PIZZAS_ORDERED
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY TOTAL_PIZZAS_ORDERED DESC
LIMIT 5;
```



Result Grid |   Filter Rows: | Export:  | Wrap Cell Content

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

```
-- Join the necessary tables to find the total quantity of each pizza category order
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS Total_Quantity_Ordered
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY Total_Quantity_Ordered DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	category	Total_Quantity_Ordered			
▶	Classic	14888			
	Supreme	11987			
	Veggie	11649			
	Chicken	11050			

```
-- Determine the distribution of orders by hour of the day.  
SELECT  
    HOUR(ORDER_TIME) AS hour, COUNT(order_id)  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

Result Grid				 Filter Rows: <input data-bbox="922 764 1377 856" type="text"/>	Export
	hour	COUNT(order_id)			
	15	1468			
	16	1920			
	17	2336			
	18	2399			
	19	2009			
	20	1642			
	21	1198			
	22	663			
	23	28			
	10	8			
	9	1			


```
-- Join relevant tables to find the category-wise distribution of pizzas
select pizza_types.category, count(pizzas.pizza_id) as Pizzas
from pizza_types
join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category
order by Pizzas;
```

Result Grid			Filter Rows:	Export:
	category	Pizzas		
▶	Chicken	18		
	Supreme	25		
	Classic	26		

```
-- Group the orders by date and calculate the average number of pizzas ordered per day
SELECT
    ROUND(AVG(Total_pizza_Ordered), 0)
FROM
    (SELECT
        orders.order_date,
        SUM(order_details.quantity) AS Total_pizza_Ordered
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS pizza_quantity;
```

Result Grid		 Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	ROUND(AVG(Total_pizza_Ordered), 0)			
▶	138			

-- Determine the top 3 most ordered pizza types based on revenue.

SELECT

 pizza_types.name,

 SUM(pizzas.price * order_details.quantity) AS Total_Rev

FROM

 pizza_types

JOIN

 pizzas **ON** pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

 order_details **ON** pizzas.pizza_id = order_details.pizza_id

GROUP BY pizza_types.name

ORDER BY Total_Rev **DESC**

LIMIT 3: |

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	name	Total_Rev
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

```
-- Advanced: Calculate the percentage contribution of each pizza type to total revenue.
SELECT
    pizza_types.category,
    ROUND(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, 2) AS contribution
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category;
```

Result Grid			Filter Rows:		Export:
	category	contribution			
▶	Classic	26.91			
	Veggie	23.68			
	Supreme	25.46			
	Chicken	23.96			

```
-- Analyze the cumulative revenue generated over time.
select order_date, sum(revenue) over(order by order_date) as Cumulative_revenue
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;
```

	order_date	Cumulative_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25000.05

```
-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
select category, name, revenue
from
(select category, name, revenue,
rank() over(partition by category order by revenue) as rn
from
(select pizza_types.category, pizza_types.name, sum(order_details.quantity * pizzas.price) as Revenue
from pizza_types
join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details on pizzas.pizza_id = order_details.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <= 3;
```

	category	name	revenue
▶	Chicken	The Chicken Pesto Pizza	16701.75
	Chicken	The Chicken Alfredo Pizza	16900.25
	Chicken	The Southwest Chicken Pizza	34705.75
	Classic	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
	Classic	The Big Meat Pizza	22968
	Classic	The Napolitana Pizza	24087
	Supreme	The Brie Carre Pizza	11588.499999999999
	Supreme	The Spinach Supreme Pizza	15277.75
	Supreme	The Calabrese Pizza	15934.25
	Veggie	The Green Garden Pizza	13955.75
	Veggie	The Mediterranean Pizza	15360.5

Result 16 ×

PIZZA SALE SQL



THANK YOU

