

Pizza Sales Management System

A SQL-Based Project

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About

Contact





Contact

About

What is this Project About?

Pizza businesses generate tons of data daily, but analyzing sales trends, revenue, and customer preferences can be challenging. This project focuses on designing a Pizza Sales Management System using SQL, where we analyze sales patterns and business performance through structured queries and insights.

Retrieve the total number of orders placed

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

\$30



Result Grid		Filter Rows
	total_orders	
▶	21350	

Calculate the total revenue

Home

About

Contact

generated from pizza sales.

```
SELECT  
    ROUND(SUM(order_detils.quantity * pizzas.price), 2) AS total_sales  
FROM  
    order_detils  
JOIN  
    pizzas  
ON  
    order_detils.pizza_id = pizzas.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

Identify the highest-priced pizza .

[About](#)[Contact](#)

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid | Filter Row

	name	price
▶	The Greek Pizza	35.95





Join the nessary tables to find the totaquantity of each pizza category orderd.

```
SELECT
    pizza_types.category, SUM(order_detils.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_detils ON order_detils.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day .

```
4  
3 •   SELECT  
4     HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
5   FROM  
6     orders  
7 GROUP BY HOUR(order_time)
```

	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
	10	8
	9	1

Join relevant tables to find the category-wise distribution of pizzas.

[Home](#)[About](#)[Contact](#)

```
SELECT  
    category, COUNT(name)  
FROM  
    pizza_types  
GROUP BY category;
```

Result Grid | Filter Rows:

	category	COUNT(name)
▶	Chicken	6
▶	Classic	8
▶	Supreme	9
▶	Veggie	9

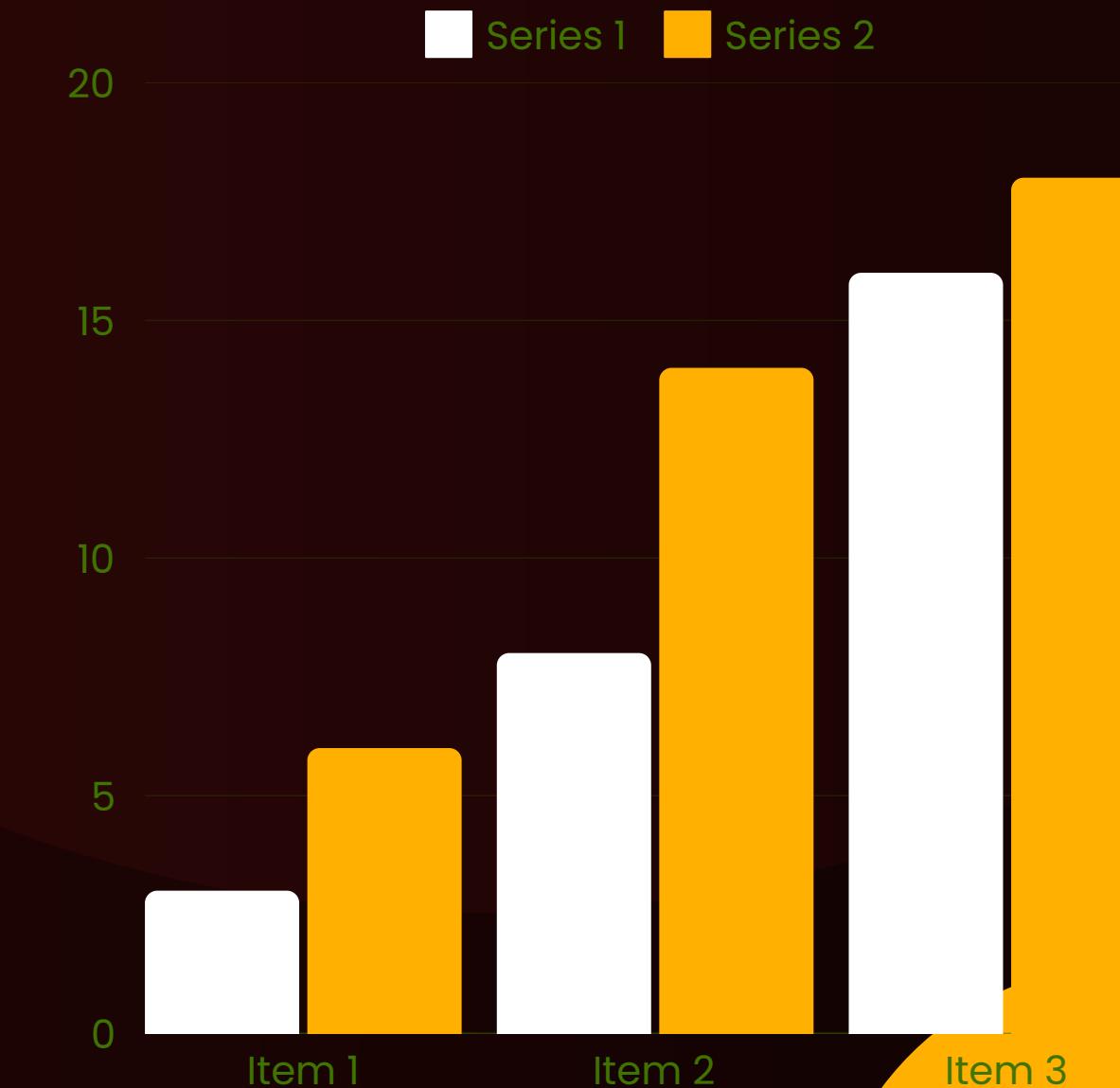
Group the orders by date and calculate the average number of pizzas ordered per day



```
5
6 • SELECT
7     ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
8 FROM
9   (SELECT
10      orders.order_date, SUM(order_detils.quantity) AS quantity
11    FROM
12      orders
13    JOIN order_detils ON orders.order_id = order_detils.order_id
14    GROUP BY orders.order_date) AS order_quantity;
15
```

Result Grid | Filter Rows:

	avg_pizza_ordered_per_day
▶	138

[About](#)[Contact](#)



Determine the top 3 most ordered pizza type based on revenue.

LIMITED TIME OFFERS

Result Grid | Filter Rows:

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

```
4 •   SELECT
5       pizza_types.name,
6       SUM(order_detils.quantity * pizzas.price) AS revenue
7   FROM
8       pizza_types
9       JOIN
10      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
11      JOIN
12      order_detils ON order_detils.pizza_id = pizzas.pizza_id
13      GROUP BY pizza_types.name
14      ORDER BY revenue DESC
15      LIMIT 3;
```



CALCULATE THE PRECENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
4 • select pizza_types.category,  
5     round(sum(order_detils.quantity * pizzas.price) / (select  
6         ROUND(sum(order_detils.quantity * pizzas.price),  
7         2) as total_sales  
8     from  
9         order_detils  
10    join  
11        pizzas on pizzas.pizza_id = order_detils.pizza_id) *100,2)as  
12        revenue  
13    from pizza_types join pizzas  
14        on pizza_types.pizza_type_id = pizzas.pizza_type_id  
15    join order_detils  
16        on order_detils.pizza_id = pizzas.pizza_id  
17    group by pizza_types.category order by revenue desc;
```

Result Grid | Filter Rows:

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time .

Home

About

Contact

```
• SELECT order_date,
        SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue
    FROM (
        SELECT orders.order_date,
               SUM(order_detils.quantity * pizzas.price) AS revenue
        FROM order_detils
        JOIN pizzas ON order_detils.pizza_id = pizzas.pizza_id
        JOIN orders ON orders.order_id = order_detils.order_id
        GROUP BY orders.order_date
    ) AS sales;
```

	order_date	cum_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	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.30000000003
	2015-01-14	32358.70000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.60000000006
	2015-01-19	43365.75000000001
	2015-01-20	45763.65000000001
	2015-01-21	47804.20000000001

Determine the top 3 most ordered pizza

Home

About

Contact

types based on revenue for each pizza category.

```
6
7 • select name , revenue from
8   (select category, name , revenue,
9    rank() over( partition by category order by revenue desc )
10   as rn
11   from
12   (select pizza_types.category, pizza_types.name,
13    sum((order_detils.quantity)* pizzas.price) as revenue
14   from pizza_types join pizzas
15   on pizza_types.pizza_type_id = pizzas.pizza_type_id
16   join order_detils
17   on order_detils.pizza_id = pizzas.pizza_id
18   group by pizza_types.category, pizza_types.name) as a)
19   as b where rn <=3  ;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5



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Pizza Resto

Home

About

THANK YOU

FOR ATTENTION.

This is Just the Beginning – Ready to Learn &
Grow