



SQL Database

Pizza Sale Analysis

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analysis of pizza orders database using MySQL to gain insights into customer preferences and sales performance.

This project covered everything from basic to advanced SQL queries and involved multi-level joins, allowing me to perform complex queries across multiple tables.

Through this analysis, I was able to uncover valuable insights that can inform business strategies and enhance customer satisfaction. I'm excited to apply these findings and skills to future projects

List the top 5 most ordered pizza types along with their quantities

Query :-

```
Query 1 List the top 5 most ordered pizza...
1 -- 5 List the top 5 most ordered pizza types along with their quantities
2
3 • select pizza_types.name , sum(order_details.quantity) as quantiy from
4 pizzas join pizza_types
5 on pizza_types.pizza_type_id = pizzas.pizza_type_id
6
7 join order_details
8 on order_details.pizza_id = pizzas.pizza_id
9 group by pizza_types.name
10 order by quantiy desc limit 5
11 ;
```

Output :-

Result Grid		
	name	quantiy
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

Determine the top 3 most ordered pizza types based on revenue for each pizza category

Query :-

```
Query 1 List the top 5 most ordered pizza... Determine the top 3 most ordere... x
Limit to 1000 rows
1 -- Determine the top 3 most ordered pizza types based on revenue for each pizza category
2
3 * select category ,name , revenue from
4
5   (select category , name , revenue , rank() over(partition by category order by revenue desc) as rn
6   from
7   (select pizza_types.category , pizza_types.name ,
8     sum((order_details.quantity) * pizzas.price) as revenue
9
10  from pizza_types join pizzas
11  on pizza_types.pizza_type_id = pizzas.pizza_type_id
12  join order_details on order_details.pizza_id = pizzas.pizza_id
13  group by pizza_types.category, pizza_types.name) as a ) as b
14
15 where rn <= 3 ;
16
```

Output :-

Result Grid			
	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75

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Identify the highest-priced pizza

Query :-

```
Query 1 SQL File 2* orders SQL File 3 9 Group the orders by date a
 1 -- Identify the highest-priced pizza
 2
 3 • select pizza_types.name , pizzas.price
 4   from pizzas join pizza_types
 5     on pizza_types.pizza_type_id = pizzas.pizza_type_id
 6   order by pizzas.price desc limit 1 ;
```

Output :-

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

Identify the highest-priced pizza

Query :-

```
(Adv) Calculate the percentage... Calculate the total revenue gene... Analyze the cumulative revenue... Identify the highest-priced pizza
2
3 • select quantity , count(order_details_id)
4
5     from order_details group by quantity ;
6
7 • select pizzas.size , count(order_details.order_details_id) as order_count
8     from pizzas join order_details
9     on pizzas.pizza_id = order_details.pizza_id
10    group by pizzas.size
11    order by order_count desc ;
12
```

Output :-

Result Grid		
	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

Calculate the total revenue generated from pizza sales

Query :-

```
(Adv) Calculate the percentage... Calculate the total revenue gene... x
 1 -- 2 Calculate the total revenue generated from pizza sales.
 2
 3
 4 • SELECT
 5   ROUND(SUM(order_details.quantity * pizzas.price),
 6         2) AS total_revenue
 7   FROM
 8     order_details
 9     JOIN
10       pizzas ON order_details.pizza_id = pizzas.pizza_id
11
```

Output :-

Result Grid	
	total_revenue
▶	817860.05

Calculate the percentage contribution of each pizza type to total revenue.

Query :-

```
(Adv) Calculate the percentage... x Calculate the total revenue gene...
1 -- Calculate the percentage contribution of each pizza type to total revenue.
2
3 • select pizza_types.category ,
4   round(sum(order_details.quantity * pizzas.price) /
5   (select round(sum(order_details.quantity * pizzas.price) ,2)
6
7   from order_details join pizzas on
8   order_details.pizza_id = pizzas.pizza_id )*100,2) as revenue
9
10 from pizza_types join pizzas on
11 pizza_types.pizza_type_id = pizzas.pizza_type_id
12 join order_details on
13 order_details.pizza_id = pizzas.pizza_id
14 group by pizza_types.category
15 order by revenue desc ;
```

Output :-

Result Grid		
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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Calculate the percentage contribution of each pizza type to total revenue.

Query :-

```
(Adv) Calculate the percentage... Calculate the total revenue gene... Analyze the cumulative revenue...
 1 -- Analyze the cumulative revenue generated over time.
 2
 3 • select order_date ,
 4   sum(revenue) over(order by order_date)  as cumulative_revenue
 5   from
 6   (select orders.order_date ,
 7    sum(order_details.quantity * pizzas.price) as revenue
 8    from order_details join orders
 9    on orders.order_id = order_details.order_id
10    join pizzas on order_details.pizza_id = pizzas.pizza_id
11    group by orders.order_date )
12   as sales;
```

Output :-

Result Grid		
	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

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