SQL-BASED PIZZA SALES ANALYSIS

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Hello, Welcome

I am Ganesh Prasad Sahoo. I created an SQL project focused on pizza sales, where I used SQL to track orders, analyze sales data, and generate reports for business insights.
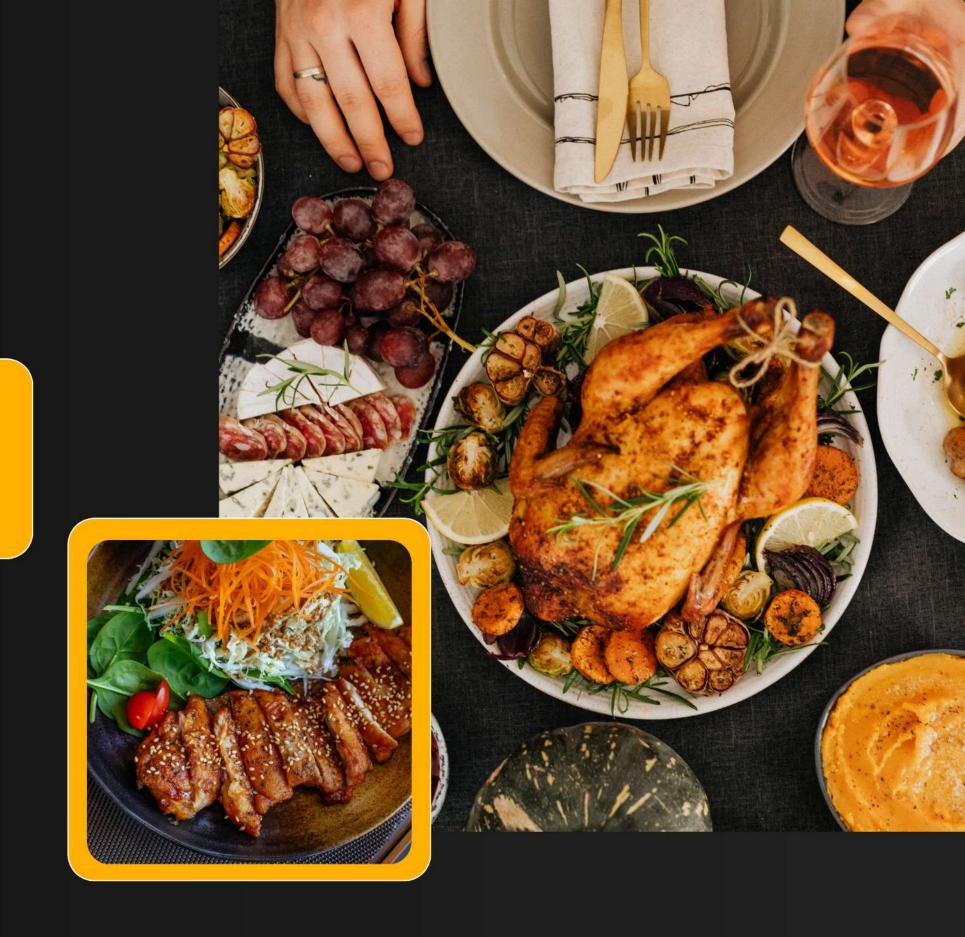
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1. Retrieve the total number of orders placed.

2.Calculate the total revenue generated from pizza sales.

3.Identify the highest-priced pizza.

4.Identify the most common pizza size ordered.

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

6.Join the necessary tables to find the total quantity of each pizza category ordered.

7.Determine the distribution of orders by hour of the day.

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

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

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

Retrieve the total number of orders placed.

```sql
SELECT
COUNT(order_id) AS total_order
FROM
 orders;
```

total_order
21350

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Calculate the total revenue generated from pizza sales.

```sql
SELECT
SUM(order_details.quantity * pizzas.price) AS
total_sales
FROM
order_details
JOIN
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

total_revenue
817860.049999993

Identify the highest-priced pizza.

```
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;
```

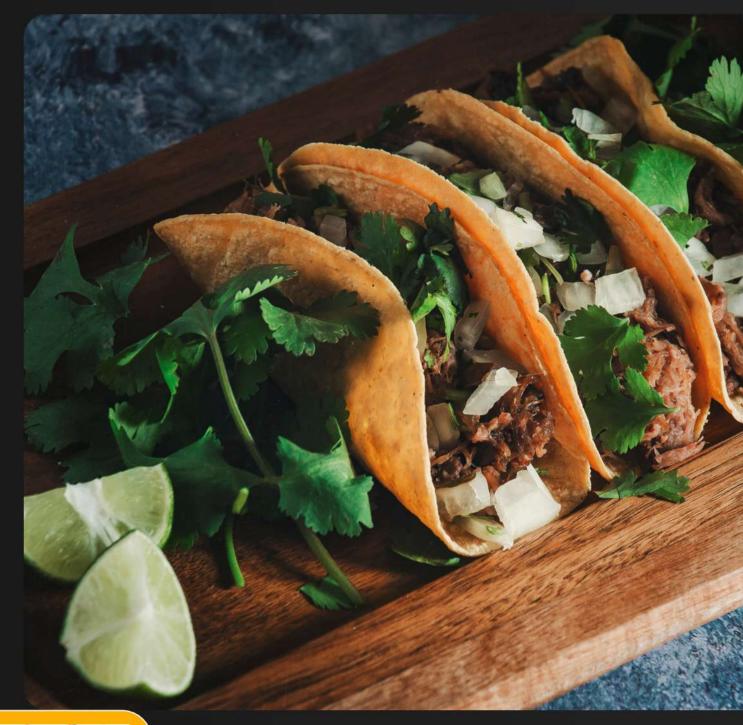| name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

SELECT
pizzas.size, COUNT(order_details.order_details_id)
FROM
pizzas
JOIN
order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size;

size	COUNT(order_details.order_details_id)
M	15385
L	18526
S	14137
XL	544
XXL	28

List the top 5 most ordered 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 pizza_types.name
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

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Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
pizza_types.category,
SUM(order_details.quantity) AS 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
ORDER BY quantity DESC;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

About

Determine the distribution of orders by hour of the day.

SELECT
HOUR(order_time) AS hour, COUNT(order_id)
AS order_id
FROM
orders
GROUP BY HOUR(order_time);

hour	order_id
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

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

```sql
SELECT AVG(quantity)
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 order_quantity;
```

AVG(quantity)
138.4749

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

```
SELECT pizza_types.name,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM pizza_types
JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```
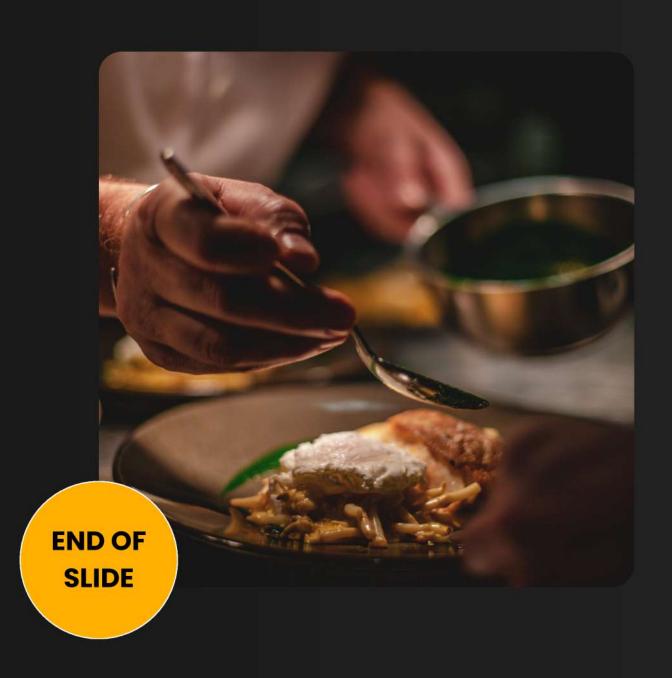
name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

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Thank You

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