

SQl Project

on

PIZZA SALES





Hello, My Name is Ranit Debnath .

In this Project I had analyzed pizza sales data using SQL queries, providing valuable insights that helped the store manager optimize operations and improve decision-making.



Database Schema

pizzas
◆ pizza_id TEXT
◆ pizza_type_id TEXT
◆ size TEXT
◆ price DOUBLE

pizza_types
◆ pizza_type_id TEXT
◆ name TEXT
◆ category TEXT
◆ ingredients TEXT

orders
🔑 order_id INT
◆ order_date DATE
◆ order_time TIME
Indexes

order_details
🔑 order_details_id INT
◆ order_id INT
◆ pizza_id TEXT
◆ quantity INT
Indexes

1. Retrieve the total number of orders placed.

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

Result Grid	
	total_orders
▶	21350

2. Calculate the total revenue generated from pizza sales.

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

Result Grid	
	total_sales
▶	817860.05

3. 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;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

4. Identify the most common pizza size ordered.

```
SELECT pizzas.size, COUNT(order_details.quantity) 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  
LIMIT 1;
```

Result Grid		Filter
	size	order_count
▶	L	18526

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

```
SELECT pizza_types.name, 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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

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

6. 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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

SELECT

```
HOUR(orders.order_time) AS hours,  
COUNT(orders.order_id) order_count
```

FROM

```
orders
```

```
GROUP BY hours;
```

	hours	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920

8. Find the category-wise distribution of pizzas

```
SELECT
```

```
    category, COUNT(name) AS No_of_pizzas
```

```
FROM
```

```
pizza_types
```

```
GROUP BY category;
```

	category	No_of_pizzas
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```
SELECT ROUND(AVG(quantity), 0) AS Average_pizzas_ordered_per_day
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;
```

	Average_pizzas_ordered_per_day
▶	138

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

```
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 pizzas.pizza_id = order_details.pizza_id  
GROUP BY pizza_types.name  
ORDER BY Total_revenue DESC  
LIMIT 3;
```

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

THANK YOU

