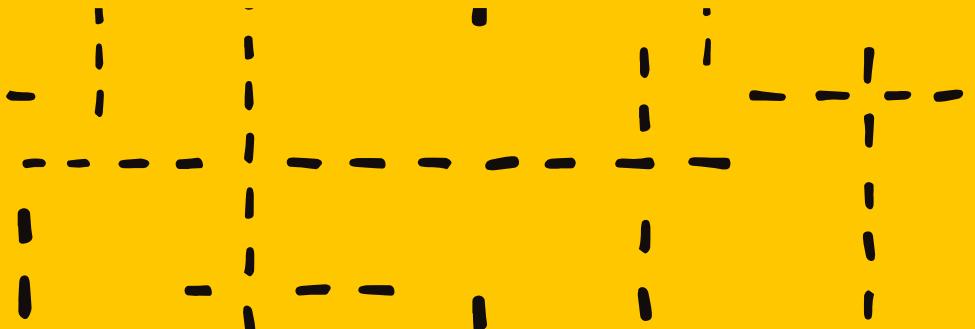


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Data analysis on

PIZZA SALES

using SQL

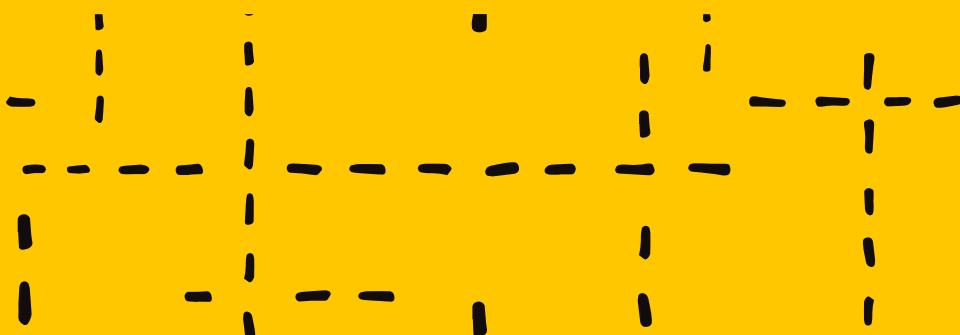


Mumbai 410-218

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HELLO !!!

I'm Khushi Singh, and in this project, I used SQL queries to analyze pizza sales and solved problems related it.



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QUESTIONS

Basic:

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

Intermediate:

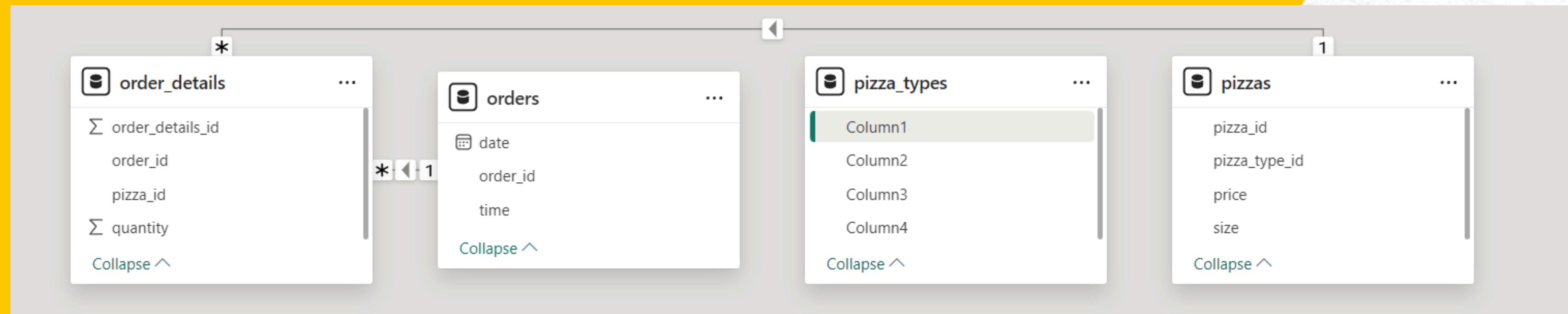
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.

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ABOUT DATASET



https://github.com/Khushi602/SQL_Project_on_Pizza_sales/blob/main/pizza_sales_dataset.zip

Khushi602/
SQL_Project_on_Pizza_sa...



At 1 Contributor 0 Issues 0 Stars 0 Forks

SQL_Project_on_Pizza_sales/pizza_sales_dataset.zip at
main · Khushi602/SQL_Project_on_Pizza_sales

Contribute to Khushi602/SQL_Project_on_Pizza_sales development by
creating an account on GitHub.

[GitHub](#)

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RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

-- Retrieve the total number of orders placed.

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

Query

Result Grid	
	total_orders
▶	21350

Output

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CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
-- Calculate the total revenue generated from pizza sales.
```

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

Result Grid	
	Total_Revenue
	817860.05

[Query](#)[Output](#)

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IDENTIFY THE HIGHEST-PRICED PIZZA.

-- Identify the highest-priced pizza.

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

Query

Output

Result Grid		Filter Rows:
	Name	Price
▶	The Greek Pizza	35.95

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IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

```
SELECT  
    pizzas.size as 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  
LIMIT 1;
```

	Size	Order_count
▶	L	18526

[Query](#)[Output](#)

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LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

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

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

[Query](#)[Output](#)

	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

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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;**Query****Output**

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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

SELECT

HOUR(order_time) AS Hours, COUNT(order_id) AS Order_Count

FROM

orders

GROUP BY HOUR(order_time);

Query

Result Grid		Filter Rows:
	Hours	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

Output

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JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

```
SELECT
    pizza_types.category as Category, COUNT(name) AS Pizzas
FROM
    pizza_types
GROUP BY category
ORDER BY category ASC;
```

Query

	Category	Pizzas
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Output

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GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

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

```
SELECT
    ROUND(AVG(quantity), 0) AS Average
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON order_details.order_id = orders.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid	
Average	138

[Query](#)[Output](#)

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DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

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

SELECT

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

Query

	Name	Revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Output

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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 pizzas.pizza_id = order_details.pizza_id) * 100,  
    2) AS revenue_percentage  
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 revenue_percentage DESC;
```

Query

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

Output

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ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
-- Analyze the cumulative revenue generated over time.

SELECT order_date,
       SUM(revenue) OVER(ORDER BY order_date) AS cum_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;
```

[Query](#)

Result Grid		
	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	23990.35000000002
	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
	2015-01-22	50300.90000000001
	2015-01-23	52724.60000000006

[Output](#)

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THANK YOU

