



SALES REPORT SQL

06-092024



INTRODUCTION

In this report, SQL queries were employed to analyze pizza sales data, addressing various complexities. Basic queries covered total orders, revenue, and pizza preferences, while intermediate queries involved joins and distributions by hour and date. Advanced queries provided insights into revenue contributions and trends, highlighting top pizza types across categories.



AGENDA

- 01** Retrieve the total number of orders placed.
- 02** Calculate the total revenue generated from pizza sales.
- 03** Identify the highest-priced pizza.
- 04** Identify the most common pizza size ordered.
- 05** List the top 5 most ordered pizza types along with their quantities.
- 06** Join the necessary tables to find the total quantity of each pizza category ordered.
- 07** Determine the distribution of orders by hour of the day.
- 08** Join relevant tables to find the category-wise distribution of pizzas.
- 09** Group the orders by date and calculate the average number of pizzas ordered per day.

AGENDA

10

Determine the top3 most ordered pizza types based on revenue.

11

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

12

Analyze the cumulative revenue generated over time.

13

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

```
-- Retrieve the total number of orders placed?  
select * from orders;  
select count(order_id) as total_orders from orders;
```

	total_orders
▶	15682

```
-- Calculate the total revenue generated from pizza sales?  
  
SELECT  
  
    SUM(order_details.quantity * pizzas.price) as rewanue  
  
FROM  
  
    order_details  
  
    JOIN  
  
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

rewanue

817860.0499999993

```
-- Identify the highest-priced pizza?
```

```
SELECT
```

```
    pizza_types.name, pizzas.price
```

```
FROM
```

```
    pizza_types
```

```
    JOIN
```

```
    pizzas ON pizzas.pizza_type_id = pizza_types.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
```

```
    quantity, COUNT(order_details_id) AS total_orders
```

```
FROM
```

```
    order_details
```

```
GROUP BY quantity;
```

quantity	total_orders
1	47693
2	903
3	21
4	3

sql query 5

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

SELECT

pizzas.pizza_id,

COUNT(order_details.quantity) AS order_count

FROM

order_details

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_id

ORDER BY order_count DESC

LIMIT 5;

pizza_id	order_count
big_meat_s	1811
thai_ckn_l	1365
five_cheese_l	1359
four_cheese_l	1273
classic_dlx_m	1159



-- Join the necessary tables to find the total quantity of each pizza category ordered? (Intermediate questions)

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

5

0

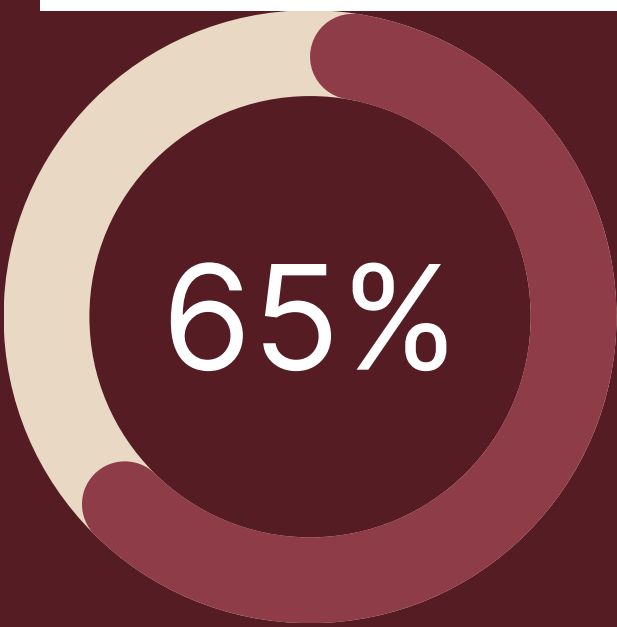
Item 1

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time)
ORDER BY COUNT(order_id) DESC;
```

hour	order_count
12	1831
13	1775
18	1765
17	1744
19	1455
16	1414
20	1178
14	1138
15	1082



```
-- Determine the distribution of orders by hour of the day?
```

```
SELECT
```

```
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
```

```
FROM
```

```
    orders
```

```
GROUP BY HOUR(order_time)
```

```
ORDER BY COUNT(order_id) DESC;
```

hour	order_count
16	1414
20	1178
14	1138
15	1082
11	911
21	886
22	475
23	21
10	7

```
-- Join relevant tables to find the category-wise distribution of pizzas?  
SELECT  
    category, count(name) as count_name  
FROM  
    pizza_types  
GROUP BY category;
```

category	count_name
Chicken	6
Classic	8
Supreme	9
Veggie	9

```
-- Join relevant tables to find the category-wise distribution of pizzas?  
SELECT  
    category, count(name) as count_name  
FROM  
    pizza_types  
GROUP BY category;
```

category	count_name
Chicken	6
Classic	8
Supreme	9
Veggie	9

sql query 11

```
-- Group the orders by date and calculate the average number of pizzas ordered per day?  
SELECT  
    ROUND(AVG(quantity), 0) as avg_ordered_pizza_per_day  
FROM  
    (SELECT  
        DAY(orders.order_date) AS day_wise,  
        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 orders_quantity;
```

	avg_ordered_pizza_per_day
▶	138

sql query 12

```
-- 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 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;
```

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

sql query 13

```
-- Calculate the percentage contribution of each pizza type to total revenue?(Advanced questions)
SELECT
    pizza_types.category,
    (SUM(order_details.quantity * pizzas.price) / (SELECT
        round(SUM(order_details.quantity * pizzas.price))
FROM
    order_details
        JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id )) *100 as revanue
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 revanue DESC;
```

	category	revanue
▶	Classic	26.905961900569793
	Supreme	25.456312816374222
	Chicken	23.955139021348398
	Veggie	23.682592375223507

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

```
select order_date , sum(revanue) over(order by order_date) as cum_revanue from  
(SELECT
```

```
orders.order_date,
```

```
SUM(order_details.quantity * pizzas.price) AS revanue
```

```
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;
```

order_date	cum_revanue
2015-01-01	2713.850000000
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

sql query 15

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

```
select name , rewanue from
```

```
(select category , name , rewanue ,rank() over(partition by category order by rewanue desc) as rn from
```

```
(SELECT
```

```
    pizza_types.name,pizza_types.category,
```

```
    SUM((order_details.quantity) * pizzas.price)
```

```
    AS rewanue
```

```
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,pizza_types.category ) as a) as b where rn <= 3 ;
```

name	rewanue
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	32265.70000
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

 Yours faithfully Lokesh chopra

THANK YOU

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