

SQL Pizza Sales Project

In this project, I utilized SQL queries to answer some questions based on
Pizza sales datasets

Datasets Used for this project

- Order_details
- Orders
- Pizza_types
- Pizzas

Questions Answered

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

Pizzahut/postgres@PostgreSQL 16

Query Query History Scratch Pad ×

```

1  -- Calculate the total revenue generated from pizza sales.
2
3
4
5  select sum(pz.price*o.quantity) as total_revenue
6  from order_details o inner join pizzas pz
7  on o.pizza_id=pz.pizza_id;
8
9
    
```

Data Output Messages Notifications

	total_revenue double precision
1	817860.049999993

Pizzahut/postgres... × Pizzahut/postgres@PostgreSQL 16* × Processes ×

Pizzahut/postgres@PostgreSQL 16

No limit

Query

Query History

Scratch Pad

1 -- Identify the highest-priced pizza.

2

3

4 select pt.pizza_name as highest_priced_pizza, pz.price

5 from pizza_types pt join pizzas pz

6 on pt.pizza_type_id=pz.pizza_type_id

7 order by pz.price desc

8 limit 1;

9

10

11

Data Output

Messages

Notifications

SQL

	highest_priced_pizza text	price double precision
1	The Greek Pizza	35.95

Total rows: 1 of 1 Query complete 00:00:00.147 Ln 8, Col 9

```
1  -- Identify the most common pizza size ordered.
2
3
4  v select sum(o.quantity), pz.size as most_common_pizza_size
5  from order_details o join pizzas pz
6  on o.pizza_id=pz.pizza_id
7  group by pz.size
8  order by sum(o.quantity) desc
9  limit 1;
10
11
12
```

	sum bigint	most_common_pizza_size text
1	18956	L

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

	pizza_name text	sum bigint
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371




```
1  --Join the necessary tables to find the total quantity of each pizza category ordered.
2
3
4  v select pt.category, sum(od.quantity)
5     from pizza_types pt join pizzas pz
6     on pt.pizza_type_id=pz.pizza_type_id
7     join order_details od
8     on od.pizza_id=pz.pizza_id
9     group by pt.category;
10
```

	category text	sum bigint
1	Supreme	11987
2	Chicken	11050
3	Classic	14888
4	Veggie	11649

```
1 --Determine the distribution of orders by hour of the day.
2
3
4 v select extract(hour from order_time) as hour_of_the_day, count(order_id) as number_of_orders
5    from orders
6    group by extract(hour from order_time)
7    order by hour_of_the_day;
```

	hour_of_the_day numeric	number_of_orders bigint
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336
10	18	2399
11	19	2009

```
1  -- find the category-wise distribution of pizzas.
2
3
4  ✓ select category, count(pizza_name)
5    from pizza_types
6    group by category;
7
```

	category text 	count bigint 
1	Supreme	9
2	Chicken	6
3	Classic	8
4	Veggie	9

```
1  -- Group the orders by date and calculate the average number of pizzas ordered per day.
2
3  v select round(avg(quantity),0) as average_number_of_pizzas_ordered_per_day from
4     (select o.order_date as date_of_month, sum(od.quantity) as quantity
5      from order_details od join orders o
6      on od.order_id=o.order_id
7      group by o.order_date);
```

	average_number_of_pizzas_ordered_per_day
	numeric
1	138

```
1  --Determine the top 3 most ordered pizza types based on revenue.
2
3
4  v select pt.pizza_name, sum(od.quantity*pz.price) as revenue from order_details od join pizzas pz
5     on od.pizza_id=pz.pizza_id
6     join pizza_types pt
7     on pt.pizza_type_id=pz.pizza_type_id
8     group by pt.pizza_name
9     order by revenue desc
10    limit 3;
11
```

	pizza_name text	revenue double precision
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5

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

	category text	revenue_percentage_contribution double precision
1	Classic	26.905960255669903
2	Supreme	25.45631126009884
3	Chicken	23.955137556847493
4	Veggie	23.682590927384783

```
1  --Analyze the cumulative revenue generated over time.
2
3  |
4
5  v select order_date, sum(revenue) over(order by order_date) as cum_revenue from
6    (select o.order_date, sum(od.quantity*pz.price) as revenue
7     from order_details od join pizzas pz
8     on od.pizza_id=pz.pizza_id
9     join orders o
10    on o.order_id=od.order_id
11    group by o.order_date);
```

	order_date date	cum_revenue double precision
1	2015-01-01	2713.85000000000004
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55

