



WELCOME TO SQL PIZZA

The SQL Pizza Project is a data analysis project that aims to explore and analyze pizza sales data using SQL. This project provides insights into sales performance, customer preferences, and operational efficiency for a pizza restaurant. The project involves querying and analyzing sales data to understand customer preferences, sales trends and business performance metrics.





DATASET& GOALS

DATASET

The project is based on four key datasets:

- 1.Orders
- 2. Order Details
- 3. Pizzas
- 4. Pizza Types

GOALS

- Improve SQL querying skills with real-world business data.
- Gain experience in data exploration, aggregation, and trend analysis.
- Provide actionable insights to optimize menu offerings and increase restaurant profitability.





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



SELECT

COUNT(order_id) AS total_orders

FROM

orders;







CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



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

2) AS total_revenue
```

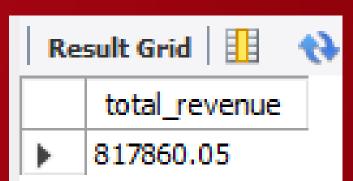
FROM

```
order_details
```

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id;



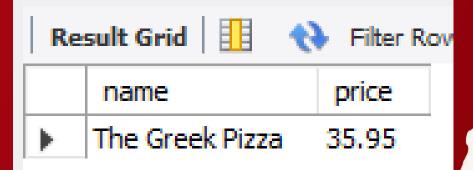






IDENTIFY THE HIGHEST-PRICED PIZZA.









IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



Re	sult Grid		43	Filte
	size	no_of	pizza	,
•	L	18526		



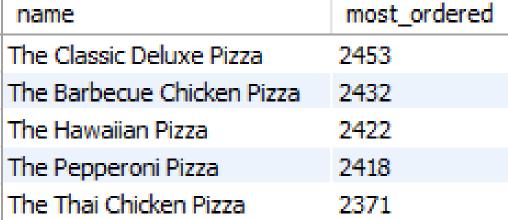


LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.



```
pizza_types.name,
    SUM(order_details.quantity) AS most_ordered
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.r	name
ORDER	BY	most_ordered	DESC
LIMIT	5;		







JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

SELECT

	category	total_quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050











HOUR(order_time) AS hour, COUNT(order_id) AS orders

FROM

orders

GROUP BY hour;



	hour	orders
•	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





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



category, COUNT(name) as count

FROM

pizza_types

GROUP BY category;

	category	count
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9







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

```
SELECT
   ROUND(AVG(quantity), 0) as Avg_pizza_ordered
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_by_date;
```



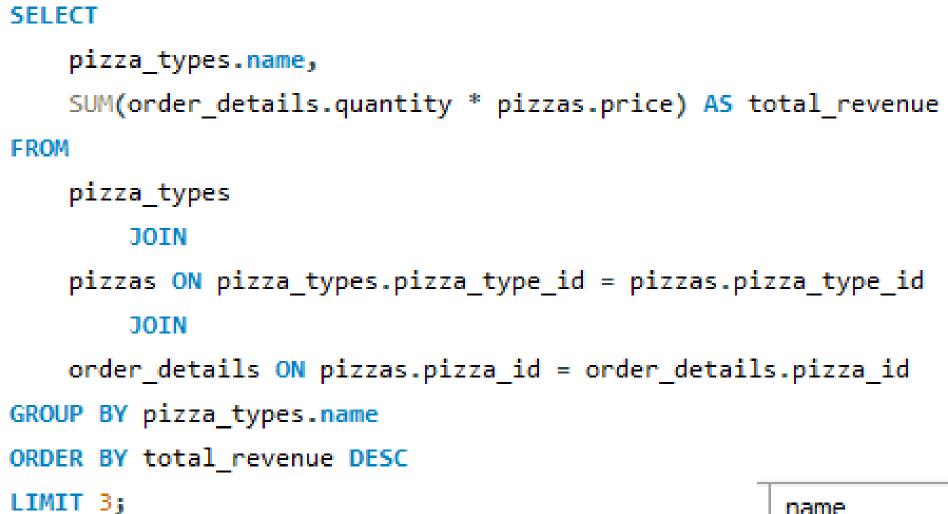
Avg_pizza_ordered



L38



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.





name	total_revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5





CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

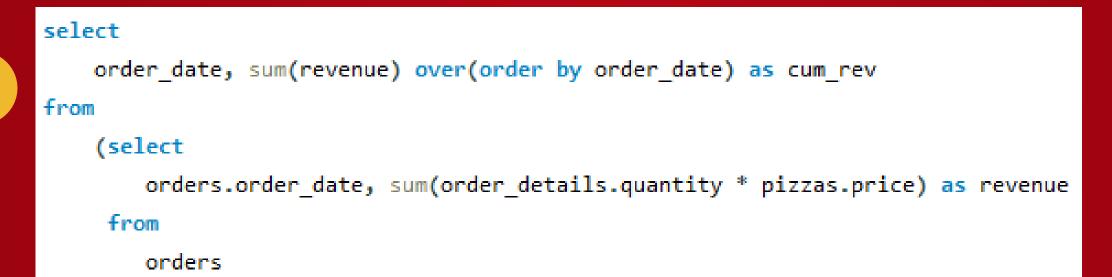
pizza_types
JOIN
<pre>pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id</pre>
JOIN
order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY Percentage_revenue DESC;

category	Percentage_revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68





ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



order_details on orders.order_id=order_details.order_id
join

pizzas on order_details.pizza_id=pizzas.pizza_id
group by orders.order_date) as sales;

join

order_date	cum_rev
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









```
category, name, revenue
from
    (select
        category, name, revenue, rank() over(partition by category order by revenue desc) as RN
   from
        (select
            pizza_types.category, pizza_types.name, sum(pizzas.price * order_details.quantity) as 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, pizza_types.category) as a) as b
where RN<=3;
```

select

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25



INSIGHT 1: TOTAL REVENUE

The total revenue generated from pizza sales is \$817,860.05. This represents the overall earnings from all orders placed in the dataset.



INSIGHT 2: MOST & LEAST POPULAR PIZZAS

- The most popular pizza is "big_meat_s" with 1,914 orders. This suggests that customers prefer this specific pizza the most.
- The least popular pizza is "the_greek_xxl", with only 28 orders, indicating low customer demand for this variant.





INSIGHT 3: PEAK ORDER TIMES

- The busiest hour for pizza orders is 12 PM (Noon) with 2,520 orders, followed closely by 1 PM (2,455 orders) and 6 PM (2,399 orders).
- Sales gradually decrease after 9 PM, with very few orders after 11 PM.
- This suggests that the restaurant experiences peak demand during lunch (12-1 PM) and dinner (5-7 PM).



INSIGHT 4: SALES DISTRIBUTION BY PIZZA CATEGORY

- Classic pizzas are the most popular, with 14,888 orders.
- Supreme and Veggie pizzas follow closely, with 11,987 and 11,649 orders, respectively.
- Chicken-based pizzas are the least ordered, with 11,050 orders.







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