SQL Project On Pizza Sales



"In this project, I conducted a comprehensive analysis of pizza sales data using SQL. The objective was to extract meaningful insights by crafting and executing SQL queries to answer specific business-related questions."



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.

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

Database Description

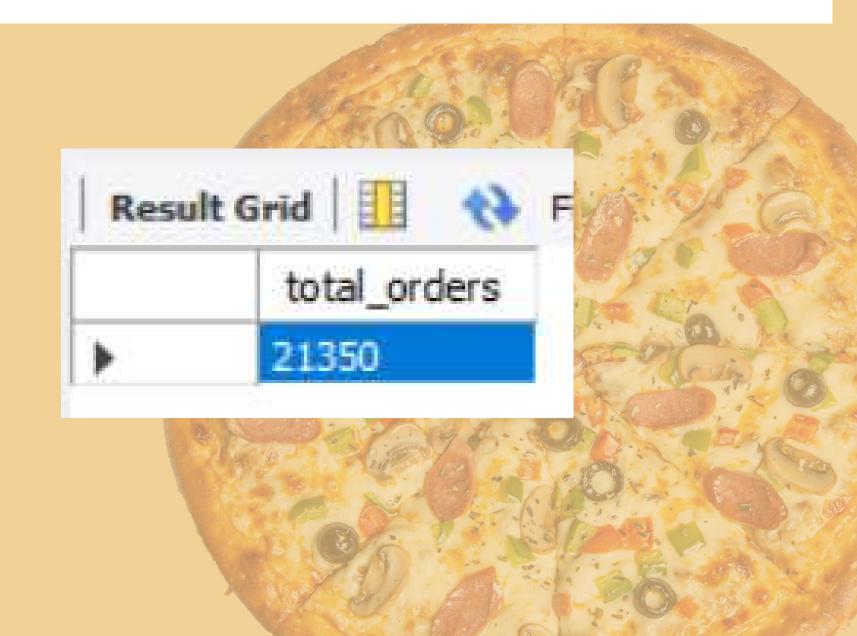
Created a data base "pizzahut" contains 4 tables: pizzas,pizza_type,orders,order_details.



Queries ->

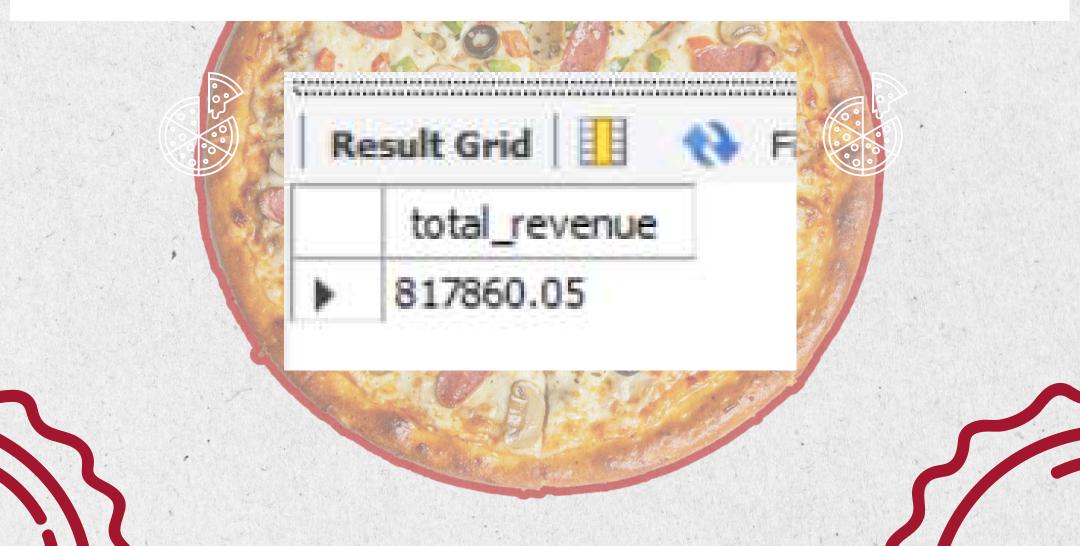
>>>

Retrieve the total number of orders placed.

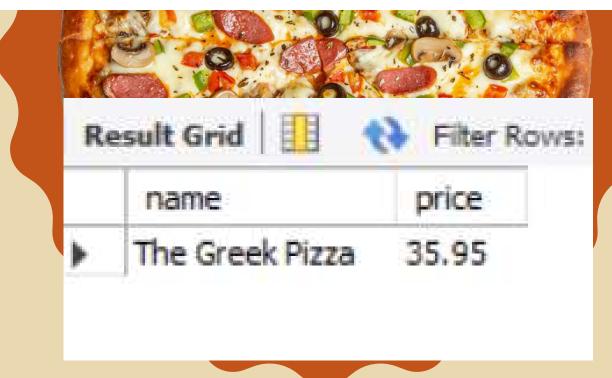


Calculate the total revenue generated from pizza sales.

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



Identify the highest-priced pizza.



Identify the most common pizza size ordered.



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

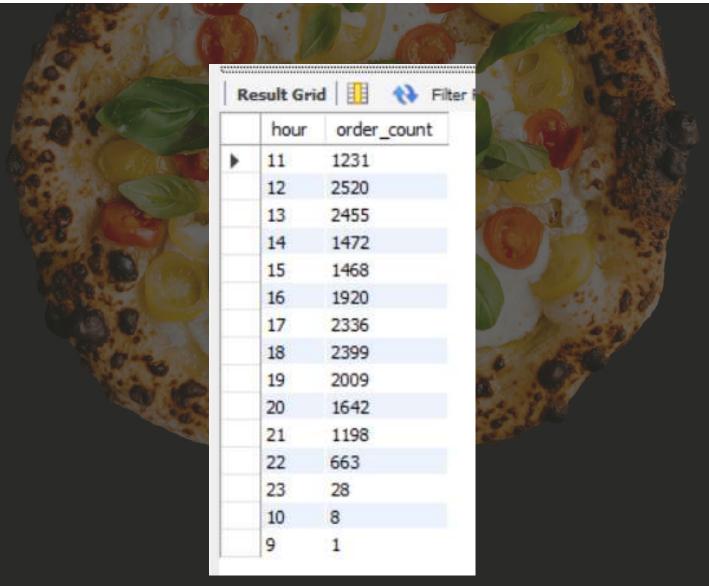
	name	quentities
>	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

Join the necessary tables to find the total quantity of each pizza category ordered.

	esult Grid	Filter
	category	Quantity
١	Classic	14888
	Veggie	11649
	Supreme	11987
	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
  pizzahut.orders
GROUP BY HOUR(order_time);
```



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

```
SELECT
    category , COUNT(name)
FROM
    pizza_types
GROUP BY category;
```



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

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

Determine the top 3 most ordered pizza types based on revenue

R	esult Grid 1	WS:
	name	revnue
>	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.

revnue

26.91

25,46

23,96

23,68

category

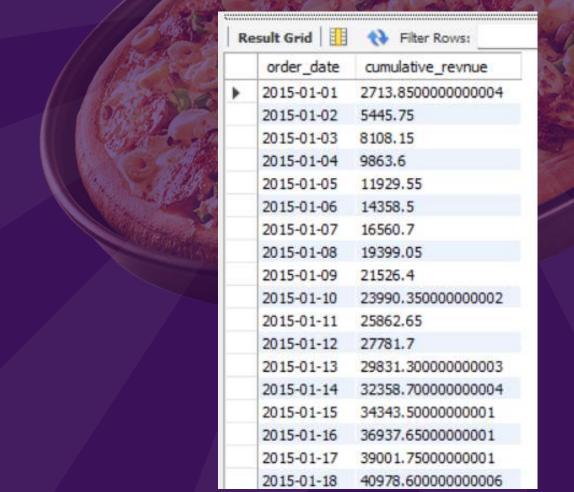
Classic

Supreme

Chicken

Veggie

Analyze the cumulative revenue generated over time.



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

```
SELECT name, revnue
FROM
    (SELECT category, name, revnue,
    RANK() OVER(PARTITION BY category ORDER BY revnue DESC) AS Rnk
FROM
    (SELECT pizza_types.category , pizza_types.name,
    SUM( order_details.quantity * pizzas.price ) AS revnue
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,pizza_types.name) AS a) AS b
WHERE Rnk <= 3;
                      revnue
                        The Thai Chicken Pizza
                                         43434.25
                        The Barbecue Chicken Pizza
                                         42768
                        The California Chickon Pi-
                                         41409.5
```

38 180.5

32273.2 30161.75

34831.2

33476.75

30940.5

26780.75

26066.5

32265.70000000065

ne Clar Delux izz

The Italian Supreme Pizza

The Four Cheese Pizza

The Five Cheese Pizza

The Mexicana Pizza

ne Hr aiian Pi

ne a

The Sicilian Pizza

ne F peroni za

CONCLUSIONS

To better analyse the data.

Increase staffing during peak hours. Promote less popular pizzas with discounts.

LEARNINGS

Improve SQL Skills Better understanding of data analysis technique.



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