



SQL PROJECT

PIZZA_HUT

A PROJECT ON PIZZA HUT SALES ANALYSIS

PIZZA PPT PRESENTATIONS



















PROJECT SUMMARY



OBJECTIVE

To analyse pizzas sales data:-

- Total number of orders placed
- Total revenue generated
- Highest-priced pizza
- Most common pizza size ordered
- Analyze the cumulative revenue

02

FEATURES ON TOPIC

- SUBQUERY
- GROUP BY
- HAVING
- AGGREGATIONS FUNCTION



ABOUT DATASET

To analyse pizzas sales data we have:-

- ORDERS CSV FILE
- ORDERS_DETAILS CSV FILE
- PIZZA_TYPES CSV FILE
- PIZZAS



TOOLS USED

To analyse pizzas sales data we used:-

• MYSQL • FOR DATA QUERYING AND DATA MANIPULATING





DATABASE & ALL SALES DATA





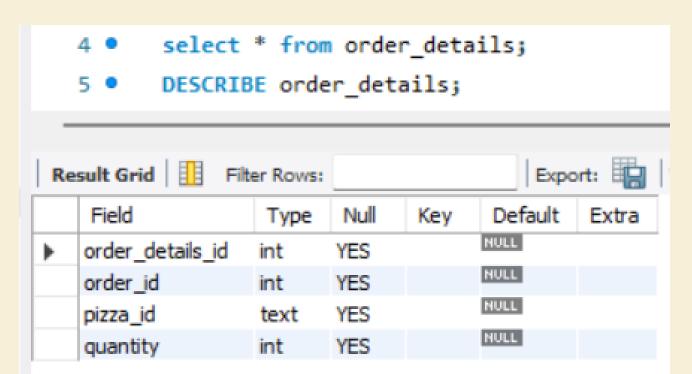




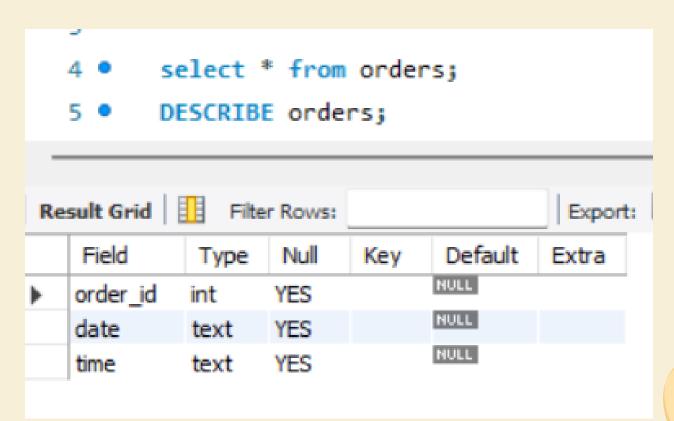


DATA SCHEMA

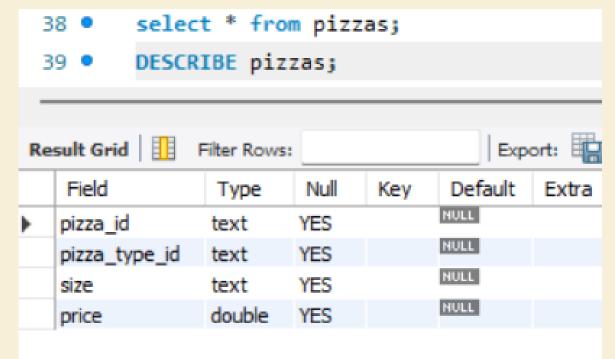
1. ORDER_DEATILS



2. ORDERS



3. PIZZAS



4. PIZZAS_TYPES

	<pre>35 • select * from pizza_types; 36 • DESCRIBE pizza_types;</pre>					
Re	Result Grid Filter Rows: Export:					
	Field	Type	Null	Key	Default	Extra
>	pizza_type_id	text	YES		NULL	
	name	text	YES		NULL	
	category	text	YES		NULL	
3	ingredients	text	YES		NULL	













BASIC QUESTIONS

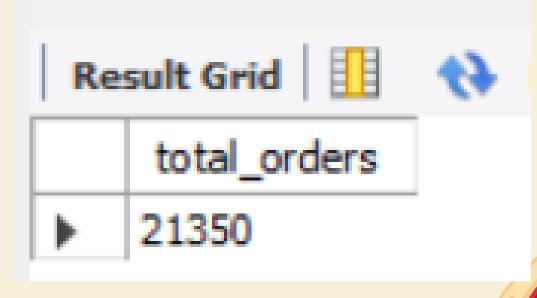






Retrieve the total number of orders placed.

select count(*) as 'Total_orders'
 from orders;











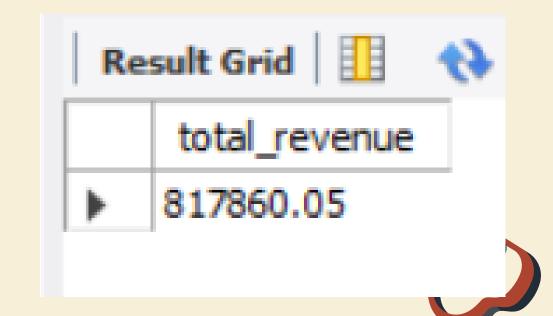


(2)

Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM((quantity * price)), 2) AS 'Total_revenue'
FROM
    order_details AS o

JOIN
    pizzas AS p
ON o.pizza_id = p.pizza_id;
```











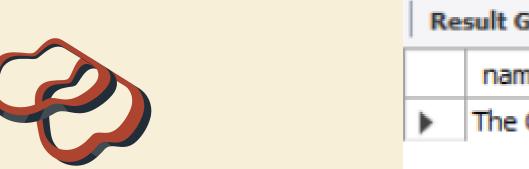


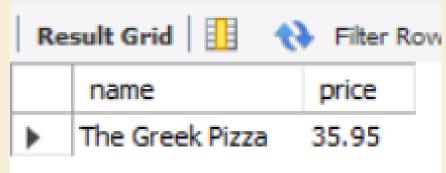


(2)

Identify the highest-priced pizza.

```
SELECT
    name, price
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```











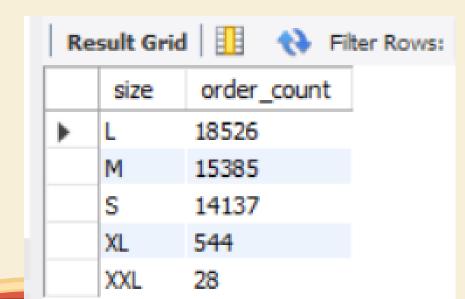




Identify the most common pizza size

```
ordered.
  SELECT
```

```
size, COUNT(order_id) AS 'Order_count'
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY size
ORDER BY order_count DESC;
```

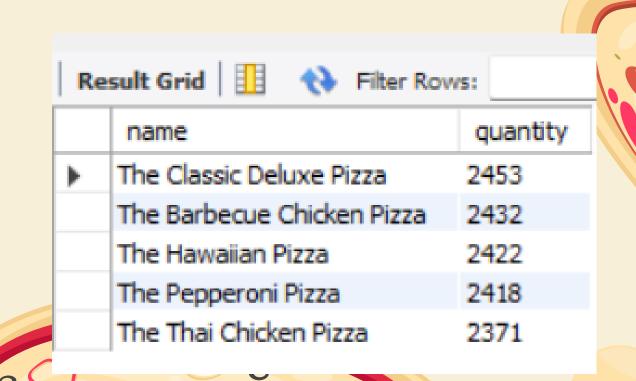




-- the number of pizzas order in which size

-- With Aggregate function have to use grorup by else got error

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















INTERMEDIATE QUESTIONS







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

```
category, SUM(quantity) AS 'Total_quantity'

FROM

pizza_types

JOIN

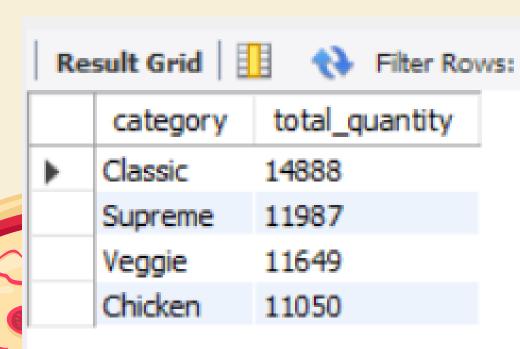
pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY category

ORDER BY total_quantity DESC;
```







Determine the distribution of orders by hour of the day.

```
-- Orders by hour of the day
-- Step1- extract hours from order_time

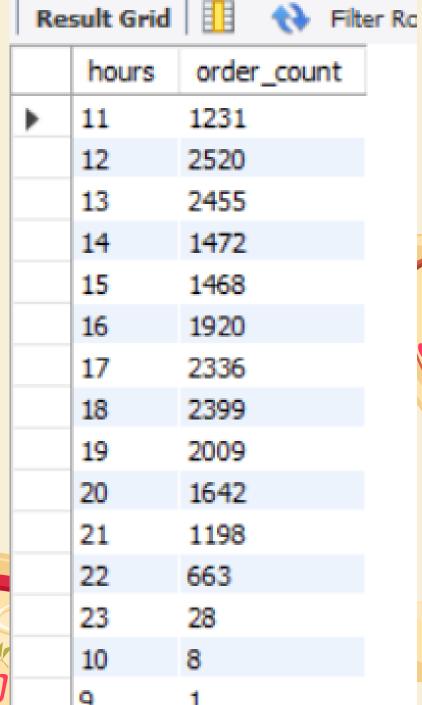
SELECT

HOUR(time) AS hours, COUNT(order_id) AS 'Order_count'

FROM

orders

GROUP BY hours;
```



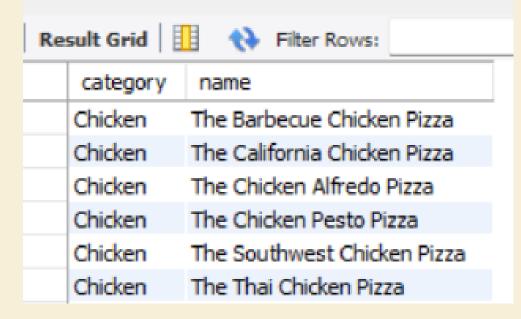






Join relevant tables to find the category-wise distribution of pizzas.

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



Supreme	The Brie Carre Pizza
Supreme	The Calabrese Pizza
Supreme	The Italian Supreme Pizza
Supreme	The Pepper Salami Pizza
Supreme	The Prosciutto and Arugula
Supreme	The Sicilian Pizza
Supreme	The Soppressata Pizza
Supreme	The Spicy Italian Pizza
Supreme	The Spinach Supreme Pizza
·	



Result Grid				
	category	count(name)		
•	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		



Veggie	The Five Cheese Pizza
Veggie	The Four Cheese Pizza
Veggie	The Green Garden Pizza
Veggie	The Italian Vegetables Pizza
Veggie	The Mediterranean Pizza
Veggie	The Mexicana Pizza
Veggie	The Spinach Pesto Pizza
Veggie	The Spinach and Feta Pizza
Veggie	The Vegetables + Vegetable

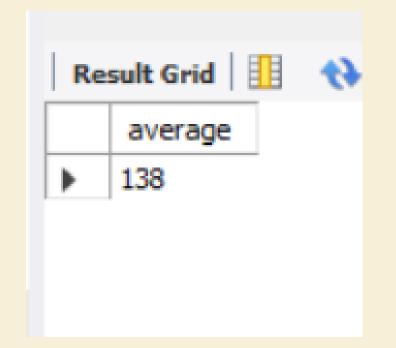


Group the orders by date and calculate the average number of pizzas ordered per day.



```
SELECT
    ROUND(AVG(quantity),0) as 'Average'
FROM

(SELECT
    SUM(quantity) as quantity
FROM
    orders
JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY date) AS order_quantity;
```









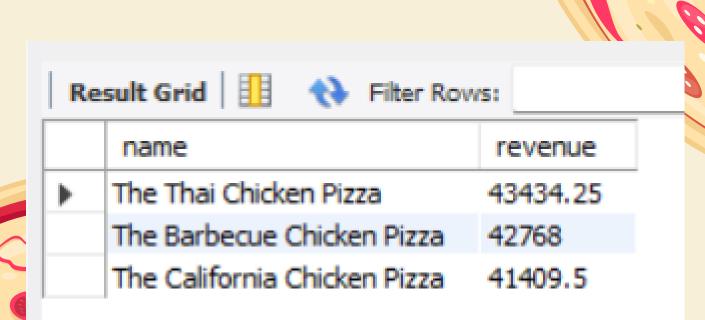




Determine the top 3 most ordered pizza types based on revenue.



```
SELECT
    name, SUM((price * quantity)) AS 'Revenue'
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 name
ORDER BY revenue DESC
LIMIT 3;
```













ADVANCE QUESTIONS



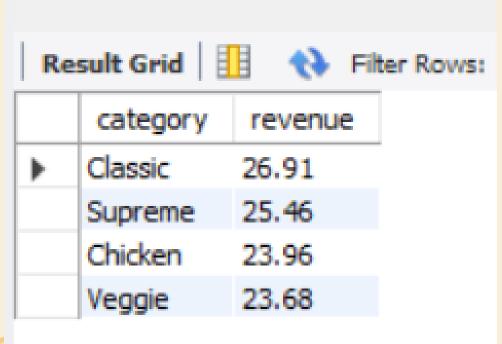






Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    category,
    ROUND((SUM(price * quantity) / (SELECT
                    ROUND(SUM((quantity * price)), 2) AS 'total_revenue'
                FROM
                    order_details AS o
                        JOIN
                    pizzas AS p ON o.pizza_id = p.pizza_id)) * 100,
            2) 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 category
ORDER BY revenue DESC;
```













(2)

Analyze the cumulative revenue generated over time.

```
-- cumulative means day by day eg. 1st day is 200 & 2nd day is 300 = 200+300 = 500 select date, sum(revenue) over (order by date) as 'cum_revenue' from

(select date ,sum(Quantity * price) as 'revenue' from order_details
```

```
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 date) as sales;
```







Re	esult Grid	N Filter Rows:
	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	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.75000000001
	2015-01-20	45763.65000000001
	2015-01-21	47804.20000000001
	2015-01-22	50300.90000000001





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

- select name, revenue from
 - (select category, name, revenue, rank() over(partition by category order by revenue desc) as rn from
 - (select CATEGORY, name ,
 sum((quantity* 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 CATEGORY, name) as a) as b
 where rn <=3;</pre>

Re	esult Grid		
	name	revenue	
•	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	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	











count of pizza_sale

23150

avg no of pizza orderd

138

Total_r evenue

817860.05











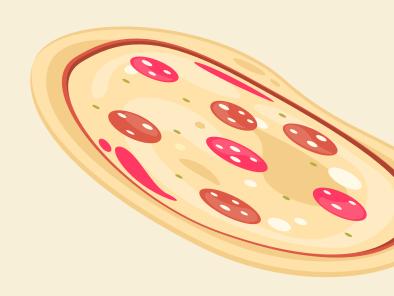






COVERD













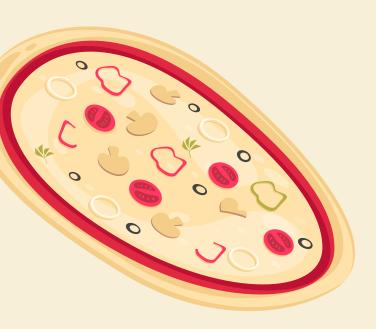






23150

COUNT OF TOTAL PIZZA SALES













THANKS!

Do you have any questions?

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