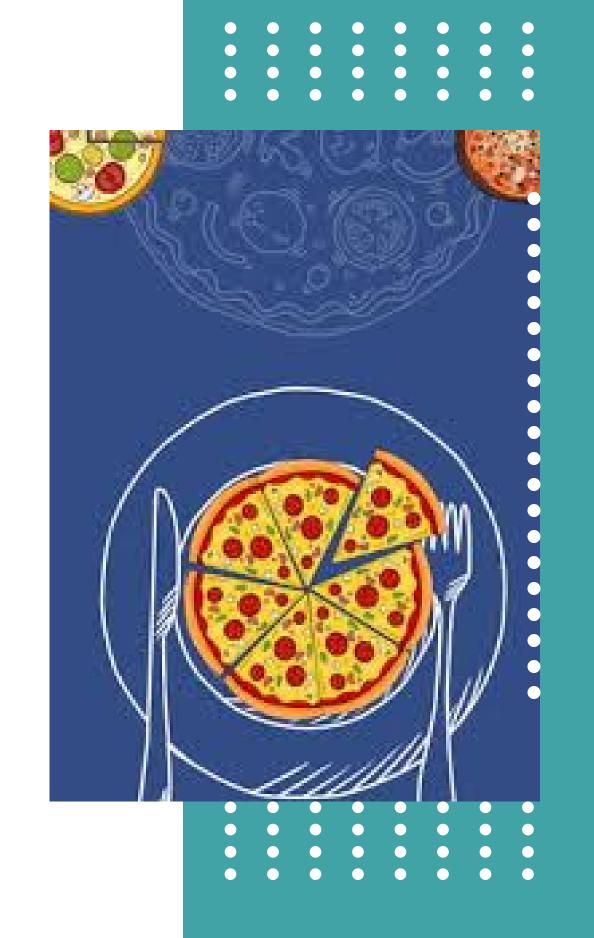
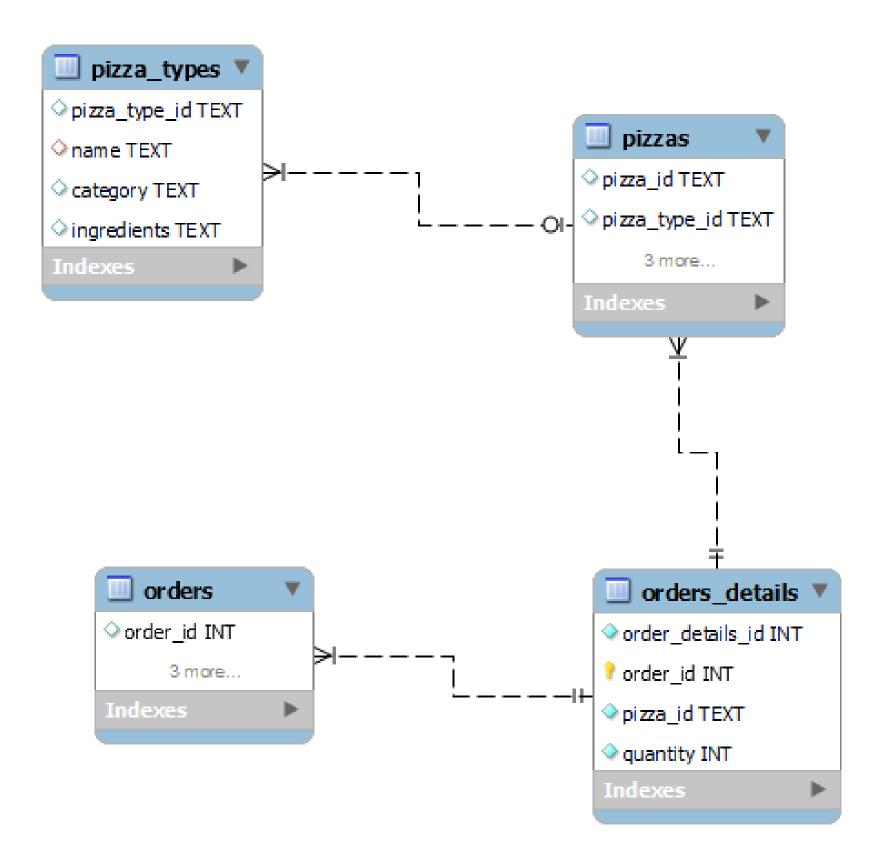
PIZZA SALES ANALYSIS USING SQL



Madhuri Madineni

Data Model



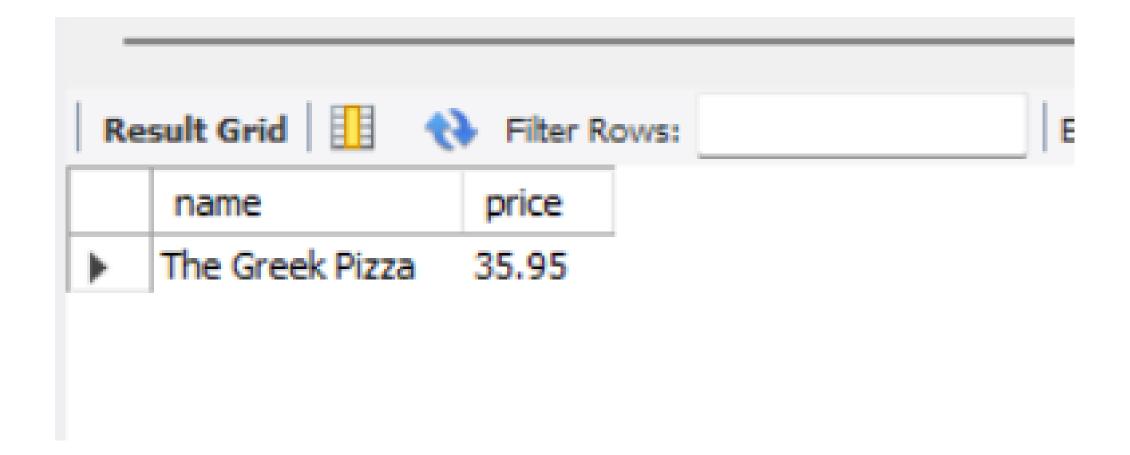
Q1. Retrieve the total no.of orders placed.

Q2. Calculate the total revenue generated from pizza sales.

```
Select
round(Sum(orders_details.quantity*pizzas.price),2) as total_revnue
from orders_details
 join
pizzas
on
 pizzas.pizza_id=orders_details.pizza_id
 Result Grid
                                                 Export: Wrap Cell Content: TA
                 Filter Rows:
     total_revnue
     217762.2
```

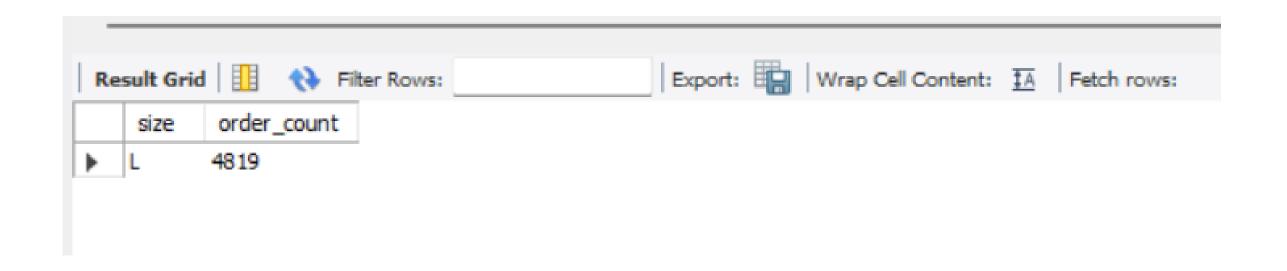
Q3. Identify the highest-priced pizza.

```
select pizza_types.name,pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
order by pizzas.price desc limit 1;
```



Q4. Identify the most common pizza size ordered.

```
select pizzas.size, count(orders_details.order_details_id) as order_count from pizzas join orders_details on pizzas.pizza_id=orders_details.pizza_id group by pizzas.size order by order_count desc limit 1;
```



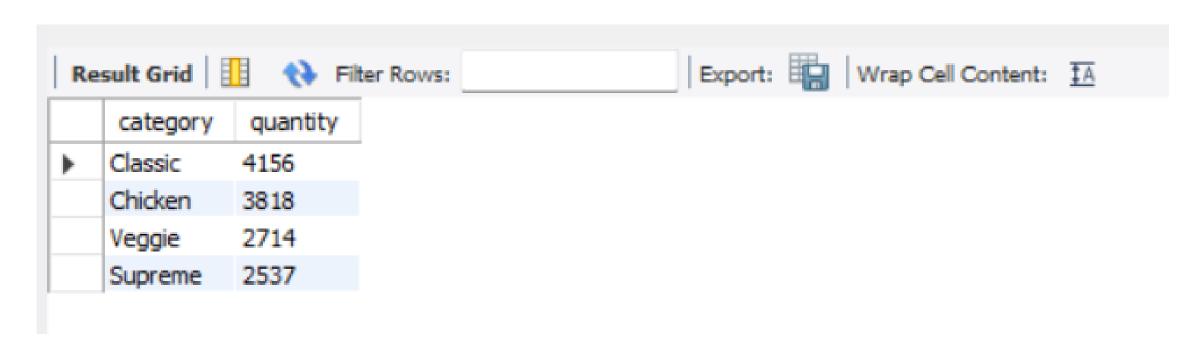
Q5. List the top 5 most ordered pizza types along with their quantities.

```
##list 5 most ordered pizzas along with their quantities
select pizza_types.name,
Sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id=pizzas.pizza_id
group by pizza_types.name order by quantity limit 5;
```

Result Grid Filter Rows:	
name	quantity
The Spinach Supreme Pizza	115
The Spinach Pesto Pizza	130
The Soppressata Pizza	157
The Greek Pizza	164
The Vegetables + Vegetables Pizza	168

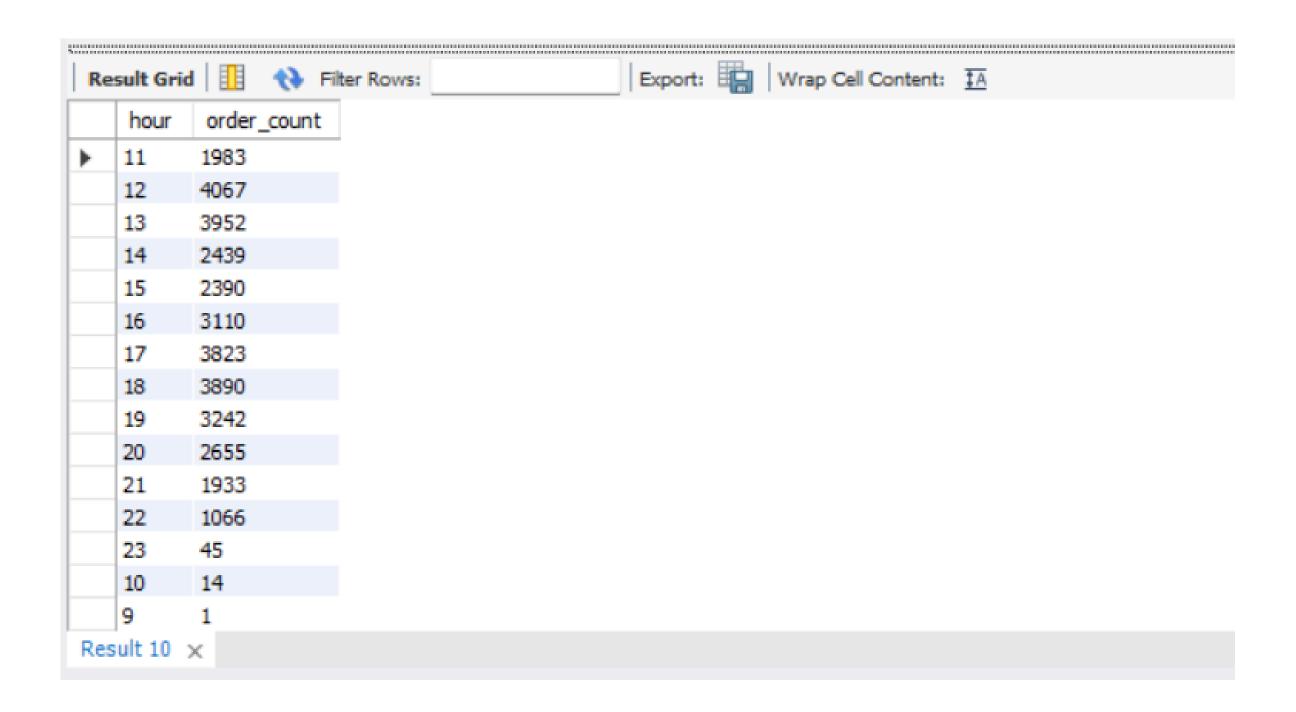
Q6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
## Join the necessary tables to find the total quantity of each pizza category ordered.
Select pizza_types.category,
Sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id=pizzas.pizza_id
group by pizza_types.category
order by quantity desc;
```



Q7. Determine the distribution of orders by hour of the day.

```
Select hour(time) as hour, count(order_id) as order_count from orders group by hour(time);
```



Q8. Join relevant tables to find the category-wise distribution of pizzas.

```
Select category, count(name) from pizza_types
group by category
```



Q9. Group the orders by date and calculate the average number of pizzas ordered per day.

avg(quantity)

121.8894

Q10. Determine the top 3 most ordered pizza types based on revenue.

```
Select pizza_types.name,

orders_details.quantity*price as revenue

from pizza_types join pizzas

on pizzas.pizza_type_id=pizza_types.pizza_type_id

join orders_details

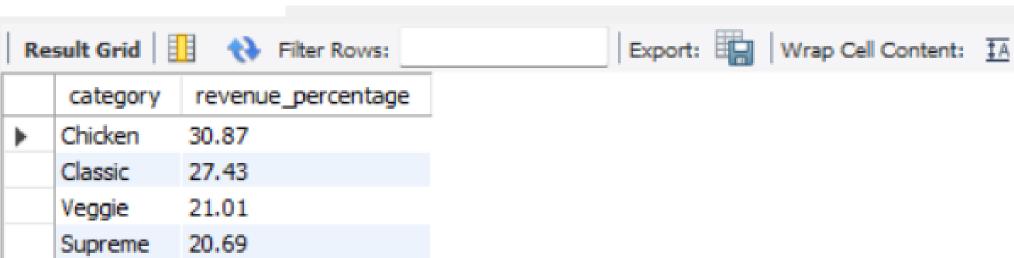
on orders_details.pizza_id=pizzas.pizza_id

order by revenue desc limit 3
```

Re	sult Grid How	/s:	Export:	Wrap Cell Co	ntent: <u>‡A</u>	Fetch rows:	-
	name	revenue					
•	The Barbecue Chicken Pizza	50.25					
	The Big Meat Pizza	48					
	The Brie Carre Pizza	47.3					

Q11. Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    pizza_types.category,
    ROUND (
        SUM(orders_details.quantity * pizzas.price) /
            SELECT ROUND(SUM(orders_details.quantity * pizzas.price), 2)
            FROM orders_details
            JOIN pizzas ON pizzas.pizza_id = orders_details.pizza_id
        ) * 100,
    2) AS revenue_percentage
FROM pizza types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza types.category
ORDER BY revenue_percentage DESC;
```

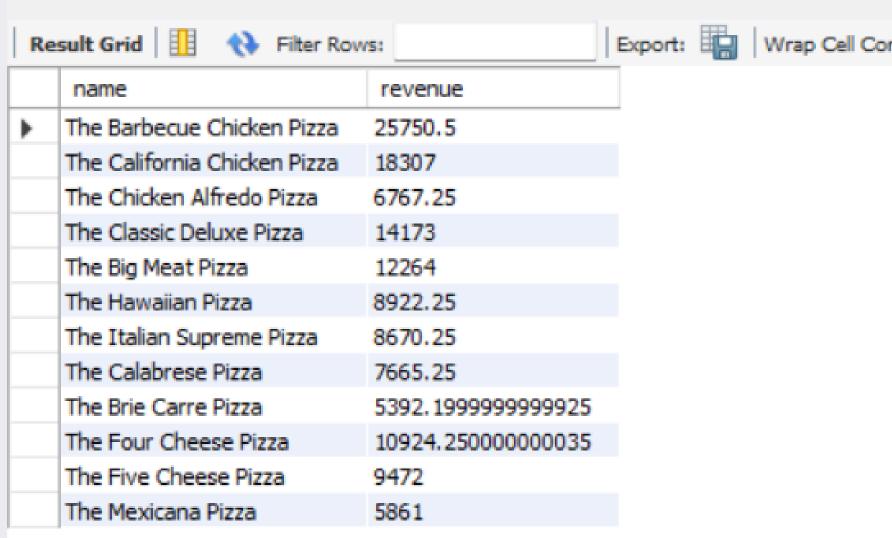


Q12. Analyze the cumulative revenue generated over time.

```
SELECT
    date,
    round(SUM(revenue) OVER (ORDER BY date),2) AS cum_revenue
FROM (
    SELECT
         orders.date,
        round( SUM(orders_details.quantity * pizzas.price),2) A5 revenue
    FROM orders_details
                                                                                 Result Grid Filter Rows:
                                                                                                                       Export: Wrap Cell Content: IA
    JOIN pizzas ON orders_details.pizza_id = pizzas.pizza_id
                                                                                    date
                                                                                             cum_revenue
     JOIN orders ON orders.order_id = orders_details.order_id
                                                                                             2272.7
                                                                                             4491.7
                                                                                   2015-01-02
    GROUP BY orders.date
                                                                                   2015-01-03
                                                                                             6749.7
) AS sales;
                                                                                             8520.3
                                                                                   2015-01-04
                                                                                             10318.2
                                                                                   2015-01-05
                                                                                   2015-01-06
                                                                                             12464.6
                                                                                   2015-01-07
                                                                                             14390.5
                                                                                   2015-01-08
                                                                                             16704.8
                                                                                             18773.7
                                                                                   2015-01-09
                                                                                             21002.3
                                                                                   2015-01-10
                                                                                   2015-01-11
                                                                                             22683.9
                                                                                             24447.5
                                                                                   2015-01-12
                                                                                   2015-01-13
                                                                                             26063.3
                                                                                             28297.3
                                                                                   2015-01-14
                                                                                   2015-01-15
```

Q13. 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 pizza_types.category, pizza_types.name,
 sum(orders details.quantity*pizzas.price) as revenue
 from pizza types join pizzas
 on pizza_types.pizza_type_id=pizzas.pizza_type_id
 join orders details
 on orders_details.pizza_id=pizzas.pizza_id
 group by pizza_types.category, pizza_types.name) as a) as b
 where rn<=3;
```



Thank You