Ques 1:- Retrieve the total number of orders placed?

Ques 2:- Calculate the total revenue generated from pizza sales?

```
Pround(SUM(order_details.quantity * pizzas.price),
2) AS total_sales
FROM
Order_details
JOIN
pizzas ON order_details.pizza_id = pizzas.pizza_id
```

Ans -



Ques 3:- Identify the highest-priced pizza?

or receivery one manager process process

```
pizza_types.name, pizzas.price

FROM

   pizza_types

        JOIN

   pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY price DESC

LIMIT 1
```

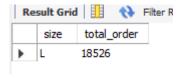
Ans - Result Grid Filter Rows:

name price

The Greek Pizza 35.95

Ques 4:-Identify the most common pizza size ordered?

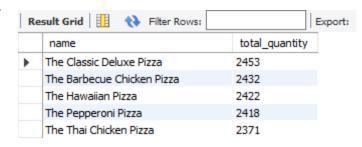
Ans-



Ques. 5:- List the top 5 most ordered pizza types along with their quantities?

SELECT

Ans –



Ques. 6:- Join the necessary tables to find the total quantity of each pizza category ordered?

SELECT

```
pizza_types.category |
SUM(order_details.quantity) AS total_quantity

FROM

pizzas

JOIN

pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id

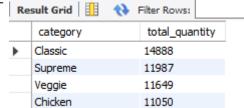
JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.category

ORDER BY total_quantity DESC
```

Ans -



Ques. 7:- Determine the distribution of orders by hour of the day?

SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
orders
GROUP BY hour

Ans-

| Re | esult Gri | d 🔢 🙌 Filt |
|----|-----------|-------------|
| | hour | order_count |
| ١ | 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 |
| | 9 | 1 |

Ques. 8:- Join relevant tables to find the category-wise distribution of pizzas?

SELECT category, COUNT(name) FROM pizza_types GROUP BY category; Ans -Result Grid Filter Rows: category count(name) Chicken 6 Classic 8 Supreme 9 Veggie

Ques. 9:- Group the orders by date and calculate the average number of pizzas ordered per day?

Ques. 10:- Determine the top 3 most ordered pizza types based on revenue?

```
SELECT
         name , round(sum(order_details.quantity * pizzas.price ),2) as revenue
     FROM
         pizza_types
             JOIN
         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        order_details ON pizzas.pizza_id = order_details.pizza_id
         group by name
      order by revenue desc
      limit 3
Ans -
        Result Grid
                         Filter Rows:
            name
                                              revenue
           The Thai Chicken Pizza
                                             43434.25
           The Barbecue Chicken Pizza
                                             42768
           The California Chicken Pizza
                                             41409.5
```

Ques. 11:- Calculate the percentage contribution of each pizza type to total revenue?

```
SELECT name,
       round((SUM(order_details.quantity * pizzas.price) /
         (SELECT SUM(order_details.quantity * pizzas.price) AS total_sales
              FROM order_details
               JOIN pizzas ON order_details.pizza_id = pizzas.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 pizzas.pizza_id = order_details.pizza_id
    GROUP BY name
    ORDER BY revenue desc
    limit 7
Ans -
        Result Grid
                         Filter Rows:
           name
                                             revenue
           The Thai Chicken Pizza
                                             5.31
           The Barbecue Chicken Pizza
                                             5.23
           The California Chicken Pizza
                                             5.06
           The Classic Deluxe Pizza
                                             4.67
           The Spicy Italian Pizza
                                             4.26
```

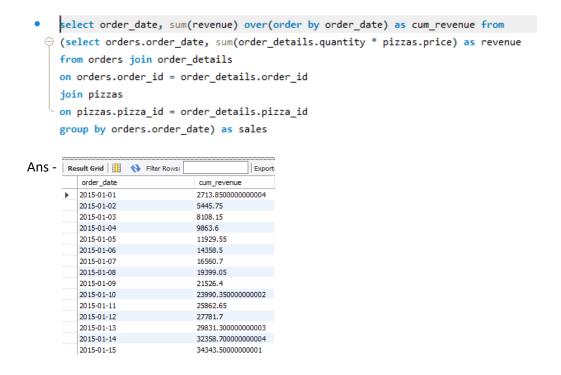
4.24

4.09

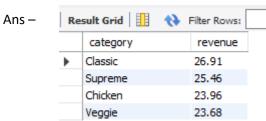
The Southwest Chicken Pizza

The Italian Supreme Pizza

Ques. 12:- Analyze the cumulative revenue generated over time?



Ques. 13:- Calculate the percentage contribution of each pizza category to total revenue?



Ques. 14:-Determine the top 3 most ordered pizza types based on revenue for each pizza category?

```
select category, name, revenue from

(select category, name, revenue,
    rank() over (partition by category order by revenue desc) as rnk from

(Select pizza_types.category, pizza_types.name,
    SUM(order_details.quantity * pizzas.price) 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.category, pizza_types.name) as a) as b
where rnk <= 3;</pre>
```

| ıs - | Result Grid | | Filter Rows: Expo | rt: Wrap Cell Conter |
|------|-------------|----------|------------------------------|----------------------|
| | | 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 |
| | | Classic | The Pepperoni Pizza | 30161.75 |
| | | Supreme | The Spicy Italian Pizza | 34831.25 |
| | | Supreme | The Italian Supreme Pizza | 33476.75 |
| | | Supreme | The Sicilian Pizza | 30940.5 |
| | | Veggie | The Four Cheese Pizza | 32265.70000000065 |
| | | Veggie | The Mexicana Pizza | 26780.75 |
| | | Veggie | The Five Cheese Pizza | 26066.5 |
| | | | | |

CONCLUSON

- Classic pizzas are the biggest contributor in revenue generation.
- The classic dulex pizza is the best seller but Thai chicken Pizza is biggest individual contributor to revenue generation
- In morning (12:00 14:00) are the busiest hours and in evening (16:00 19:00) are the busiest hours with maximum pizza sales
- Sale total to average daily sale of 138 pizzas
- (L) is the most orders size among all pizza sizes.