



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.

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.

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.

TOTAL NUMBER OF ORDERS PLACED AND TOTAL REVENUE

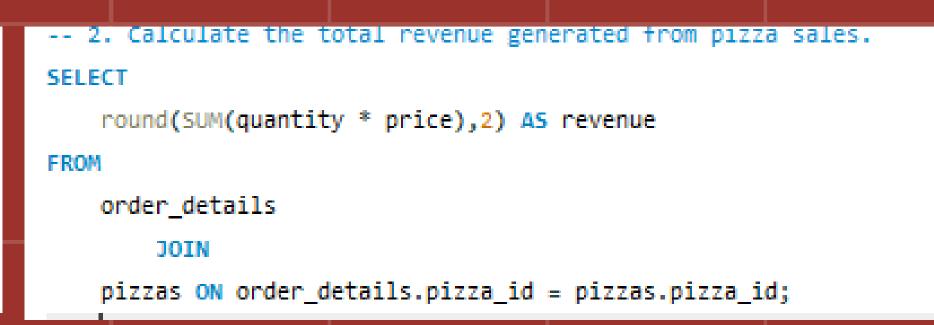
```
-- 1. Retrieve the total number of orders placed.

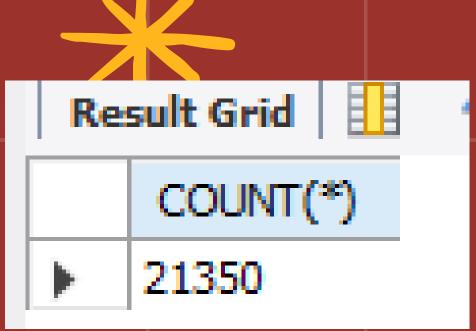
SELECT

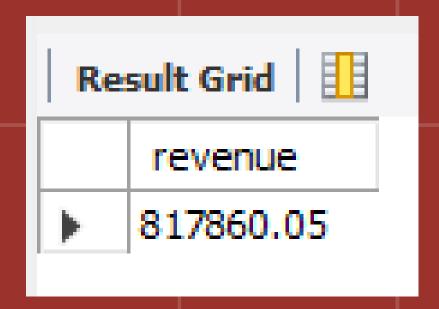
COUNT(*)

FROM

orders;
```









HIGHEST PRICED PIZZA AND MOST COMMON PIZZA SIZE ORDERD

```
-- 3. Identify the highest-priced pizza.

SELECT

name, price

FROM

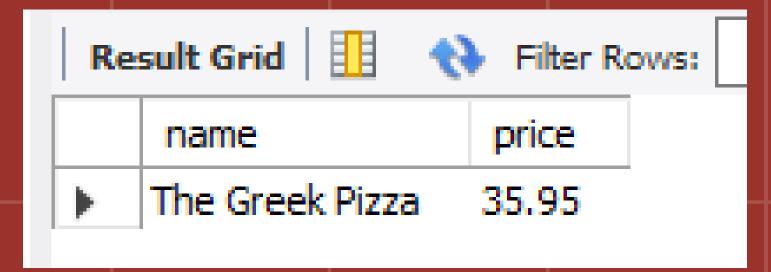
pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY price DESC

LIMIT 1;
```



```
-- 4. Identify the most common pizza size ordered.

SELECT

COUNT(order_id) AS count_of_id, size

FROM

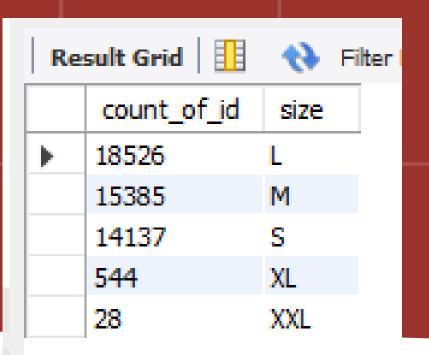
order_details

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id

GROUP BY size

ORDER BY count_of_id DESC;
```



TOP 5 MOST ORDERD PIZZA

```
-- 5. List the top 5 most ordered pizza types along with their quantities.
SELECT
   COUNT(quantity) AS count_of_quantity, name
FROM
   order_details
       JOIN
   pizzas ON order_details.pizza_id = pizzas.pizza_id
       JOIN
   pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY name
ORDER BY count_of_quantity DESC
                                                          Result Grid
                                                                                  Filter Rows:
                                                                                                                      Export
LIMIT 5;
                                                              count_of_quantity
                                                                                    name
                                                              2416
                                                                                    The Classic Deluxe Pizza
                                                                                    The Barbecue Chicken Pizza
                                                              2372
                                                              2370
                                                                                    The Hawaiian Pizza
                                                              2369
                                                                                    The Pepperoni Pizza
                                                                                    The Thai Chicken Pizza
                                                              2315
```

TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED



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

```
SELECT
    category, COUNT(quantity) AS count_of_quantity
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 category;

Result Grid			
	category	count_of_quantity	
•	Classic	14579	
	Veggie	11449	
	Supreme	11777	
	Chicken	10815	

DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
-- 7. Determine the distribution of orders by hour of the day.
SELECT
    COUNT(order_id), HOUR(order_time) A5 hour_of_order
FROM
    orders
GROUP BY hour_of_order;
```

Re	sult Grid 🔢 🙌	Filter Rows:
	COUNT(order_id)	hour_of_order
•	1231	11
	2520	12
	2455	13
	1472	14
	1468	15
	1920	16
	2336	17
	2399	18
Res	ult 1 ×	

CATEGORY-WISE DISTRIBUTION OF PIZZAS

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

SELECT

```
category, COUNT(name)
```

FROM

pizza_types

GROUP BY category;

Re	sult Grid	Filter Rows:
	category	COUNT(name)
>	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
-- 9. Group the orders by date and calculate the average number of pizzas ordered per day.
SELECT
   ROUND(AVG(_quantity), 0)
FROM
   (SELECT
       SUM(quantity) AS quantity, (order date)
   FROM
       order details
   JOIN orders ON order_details.order_id = orders.order_id
   GROUP BY order_date) AS order_quantity;
                                                               Result Grid
                                                                    ROUND(AVG(_quantity), 0)
                                                                    138
```

3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
-- 10. Determine the top 3 most ordered pizza types based on revenue.
SELECT
    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 pizzas.pizza_id = order_details.pizza_id
GROUP BY name
ORDER BY revenue DESC
LIMIT 3;
```

	name	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
-- 11. Calculate the percentage contribution of each pizza type to total revenue.
SELECT
    category,
    ROUND((SUM(quantity * price) / (SELECT
                    ROUND(SUM(quantity * price), 2)
                FROM
                    order_details
                        JOIN
                    pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100,
            2) AS rnew
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 category
order by rnew desc;
```

	category	rnew
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

CUMULATIVE REVENUE GENERATED DVER TIME

```
-- 12. Analyze the cumulative revenue generated over time.

select order_date,sum(revenue) over(order by order_date) as cum_revenue

from (select order_date,sum(quantity*price) as revenue

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 order_date) as sales;
```

	order_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

3 MOST ORGERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
-- 13. 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) 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 pizzas.pizza id = order details.pizza id _
  GROUP BY category, name ) as a) as b
  where rn<=3
```

name	revenue
The Chicken Pesto Pizza	16701.75
The Chicken Alfredo Pizza	16900.25
The Southwest Chicken Pizza	34705.75
The Pepperoni, Mushroom, and Peppers Pizza	18834.5
The Big Meat Pizza	22968
The Napolitana Pizza	24087
The Brie Carre Pizza	11588.4999999999
The Spinach Supreme Pizza	15277 75



