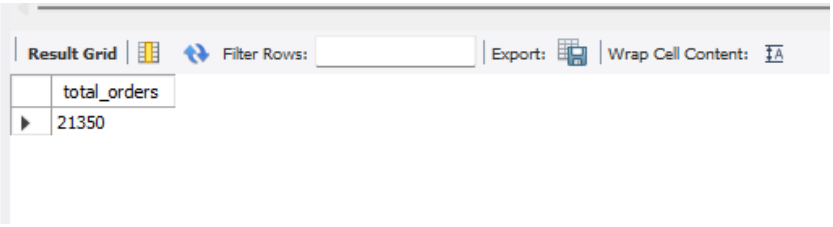
Pizza Sales Project

1) Retrieve the total number of orders placed.

```
SELECT COUNT(order_id) as total_orders from orders;
```



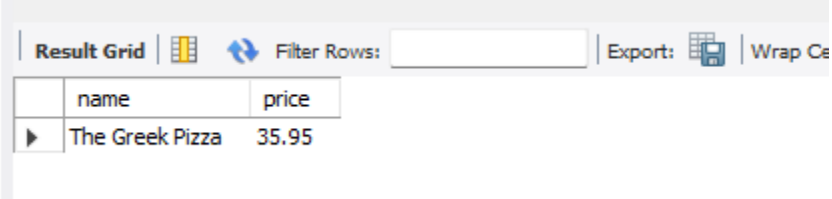
2) Calculate the total revenue generated from pizza sales.

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

3) Identify the highest-priced pizza.

```
SELECT
   pizza_types.name, pizzas.price
FROM
```

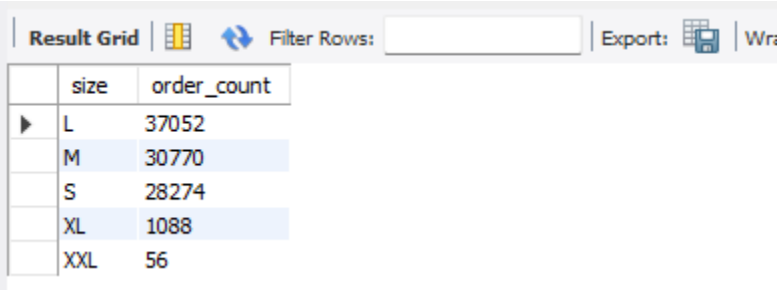
```
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```



name	price
The Greek Pizza	35.95

4) Identify the most common pizza size ordered.

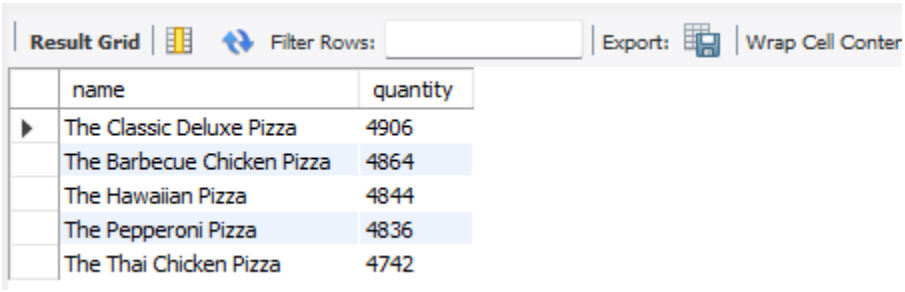
```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```



size	order_count
L	37052
M	30770
S	28274
XL	1088
XXL	56

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

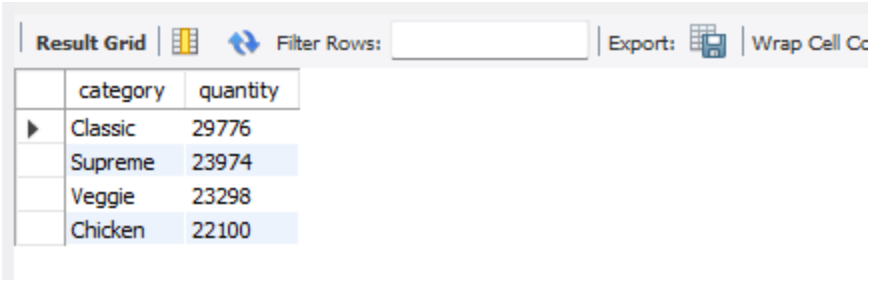
```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```



name	quantity
The Classic Deluxe Pizza	4906
The Barbecue Chicken Pizza	4864
The Hawaiian Pizza	4844
The Pepperoni Pizza	4836
The Thai Chicken Pizza	4742

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

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS 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 pizza_types.category
ORDER BY quantity DESC;
```

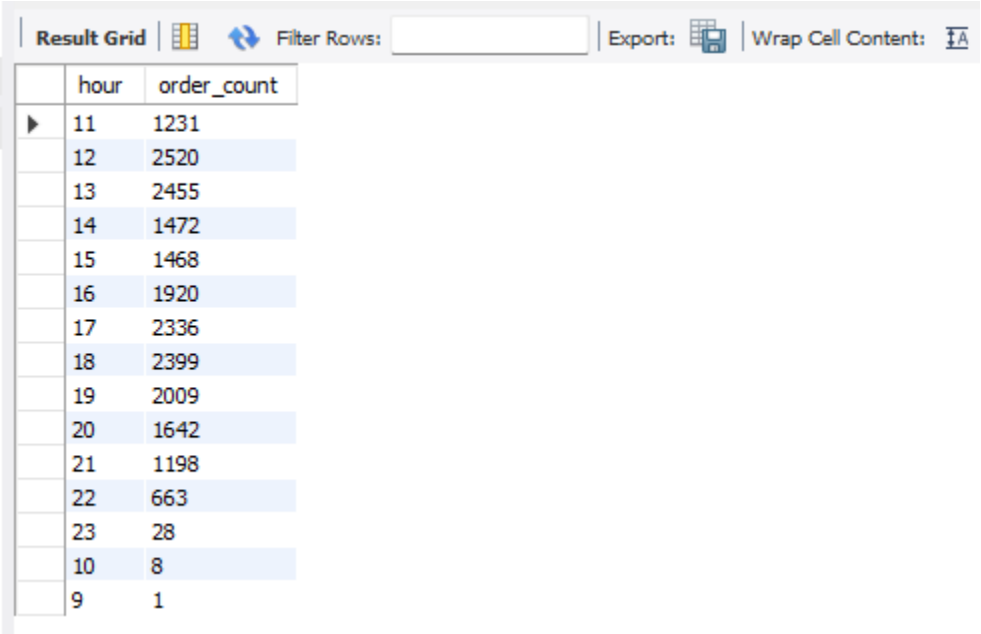


Result Grid | Filter Rows: | Export: | Wrap Cell Cc

category	quantity
Classic	29776
Supreme	23974
Veggie	23298
Chicken	22100

7) 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);
```



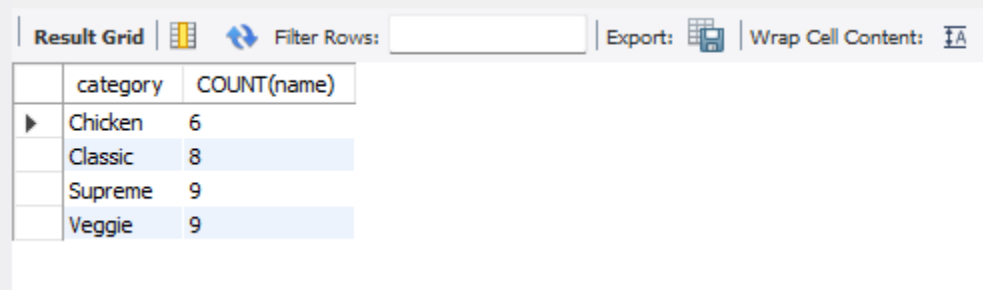
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

hour	order_count
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

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

```
SELECT
    category, COUNT(name)
FROM
```

```
    pizza_types
GROUP BY category;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

```
 SELECT ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
FROM (
    SELECT orders.date, SUM(order_details.quantity) AS quantity
    FROM orders
    JOIN order_details
        ON orders.order_id = order_details.order_id
    GROUP BY orders.date
) AS order_quantity;
```

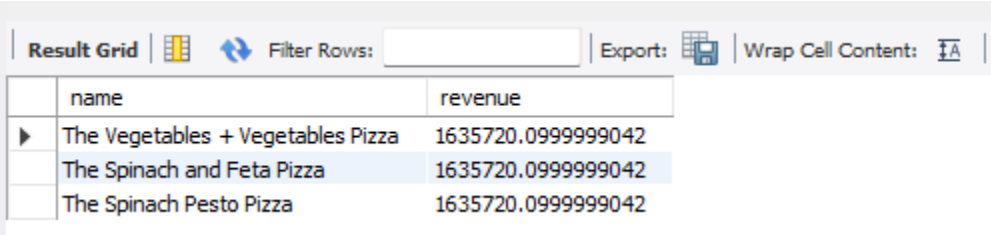
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

avg_pizza_ordered_per_day
277

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

```
SELECT pizza_types.name,
SUM(order_details.quantity * pizzas.price) as revenue
FROM pizza_types JOIN pizzas
ON pizzas.pizza_type_id = pizzas.pizza_type_id
```

```
JOIN order_details
ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name order by revenue desc limit 3;
```

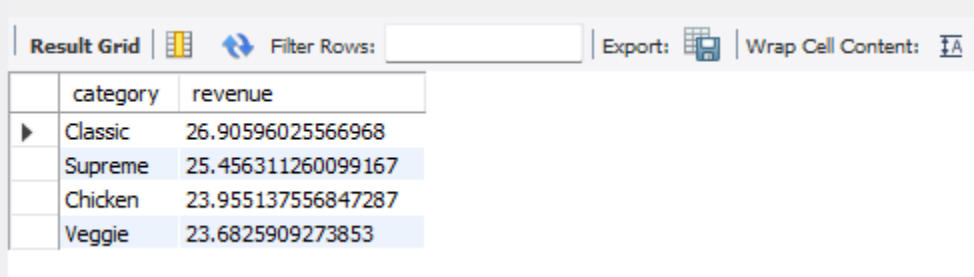


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	revenue
The Vegetables + Vegetables Pizza	1635720.0999999042
The Spinach and Feta Pizza	1635720.0999999042
The Spinach Pesto Pizza	1635720.0999999042

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

```
SELECT pizza_types.category,
(SUM(order_details.quantity*pizzas.price) / (select
ROUND(SUM(order_details.quantity * pizzas.price), 2) AS total_sales
FROM order_details
JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id) )*100 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 pizza_types.category order by revenue desc;
```

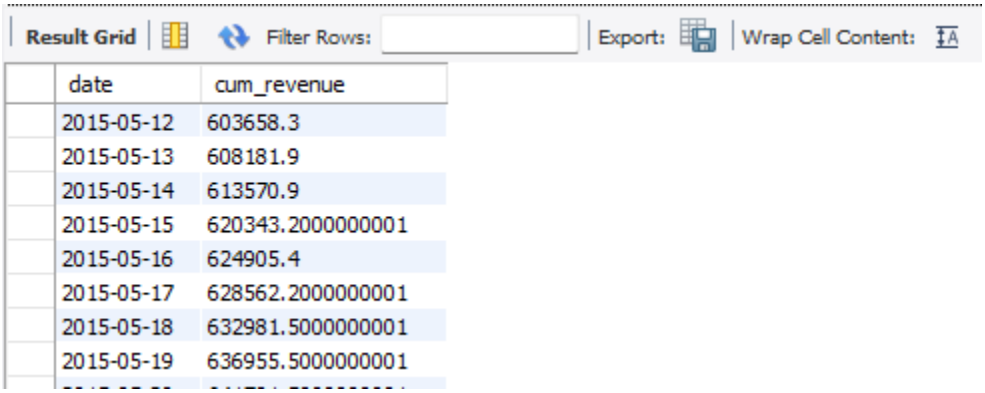


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	revenue
Classic	26.90596025566968
Supreme	25.456311260099167
Chicken	23.955137556847287
Veggie	23.6825909273853

12) Analyze the cumulative revenue generated over time.

```
SELECT
    date,
    SUM(revenue) OVER (ORDER BY date) AS cum_revenue
FROM (
    SELECT
        orders.date,
        SUM(order_details.quantity * pizzas.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 orders.date
) AS sales;
```

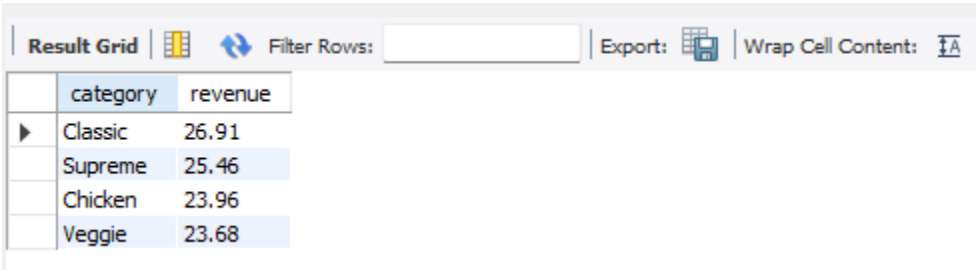


date	cum_revenue
2015-05-12	603658.3
2015-05-13	608181.9
2015-05-14	613570.9
2015-05-15	620343.2000000001
2015-05-16	624905.4
2015-05-17	628562.2000000001
2015-05-18	632981.5000000001
2015-05-19	636955.5000000001

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

```
SELECT
    pizza_types.category,
    ROUND(
        SUM(order_details.quantity * pizzas.price) /
        (
            SELECT SUM(order_details.quantity * pizzas.price)
```

```
            FROM order_details
            JOIN pizzas
                ON pizzas.pizza_id = order_details.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 pizza_types.category
ORDER BY revenue DESC;
```



category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68