LARANA PIZZA

LA,PIZZERIA

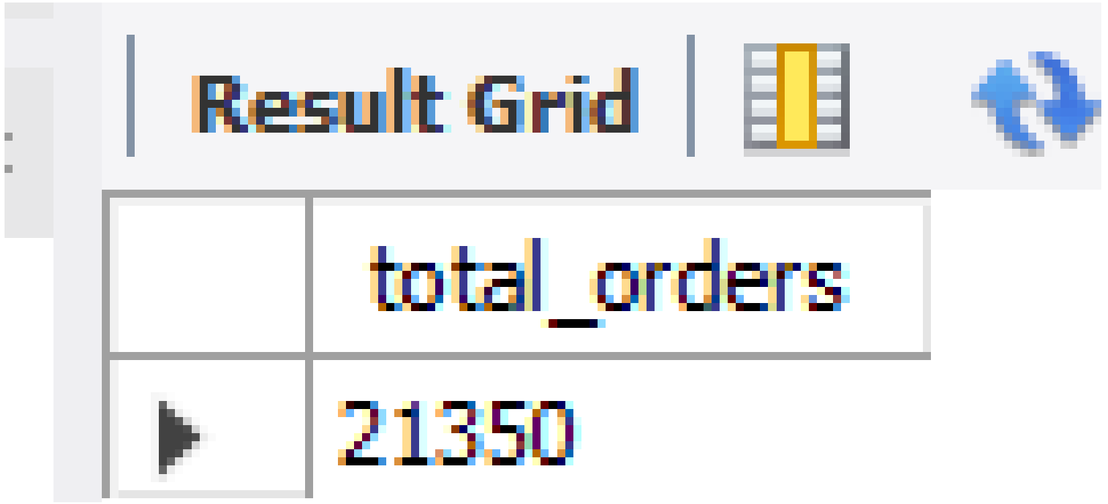
SQL QUERIES AND RESULTS

QUERY 1: RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

CODE:

```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

RESULT:

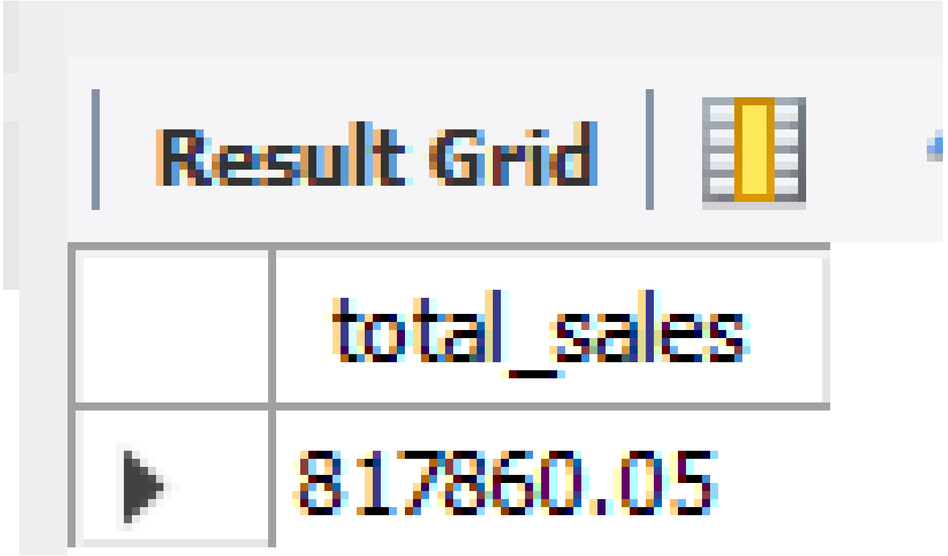


QUERY 2: CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

CODE:

```
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
```

RESULT:

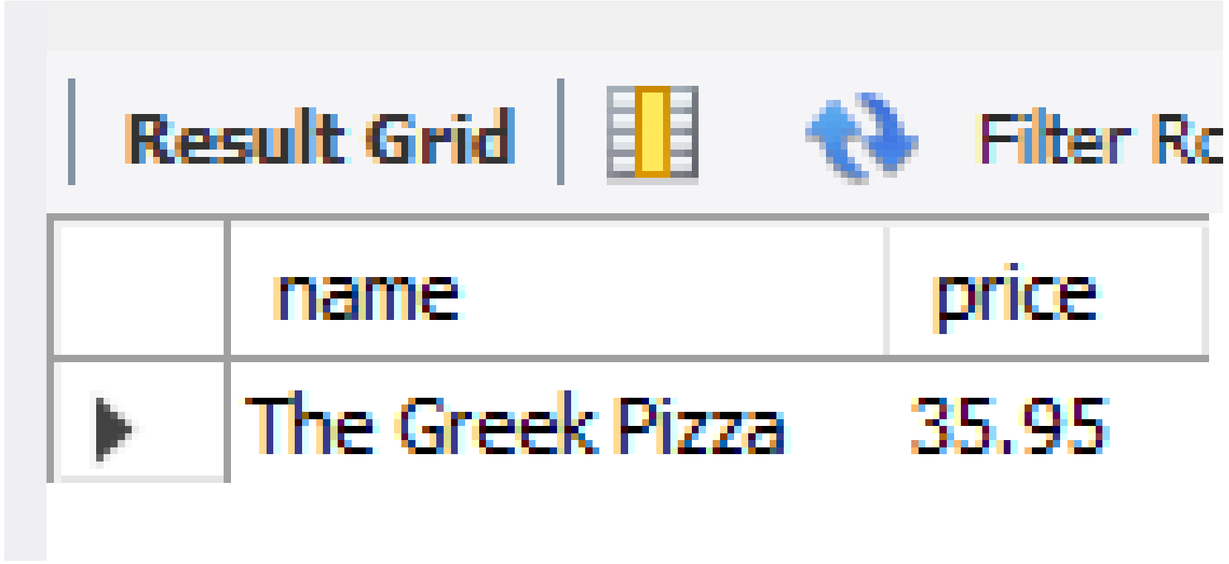


QUERY 3: IDENTIFY THE HIGHEST-PRICED PIZZA.

CODE:

```
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;
```

RESULT:



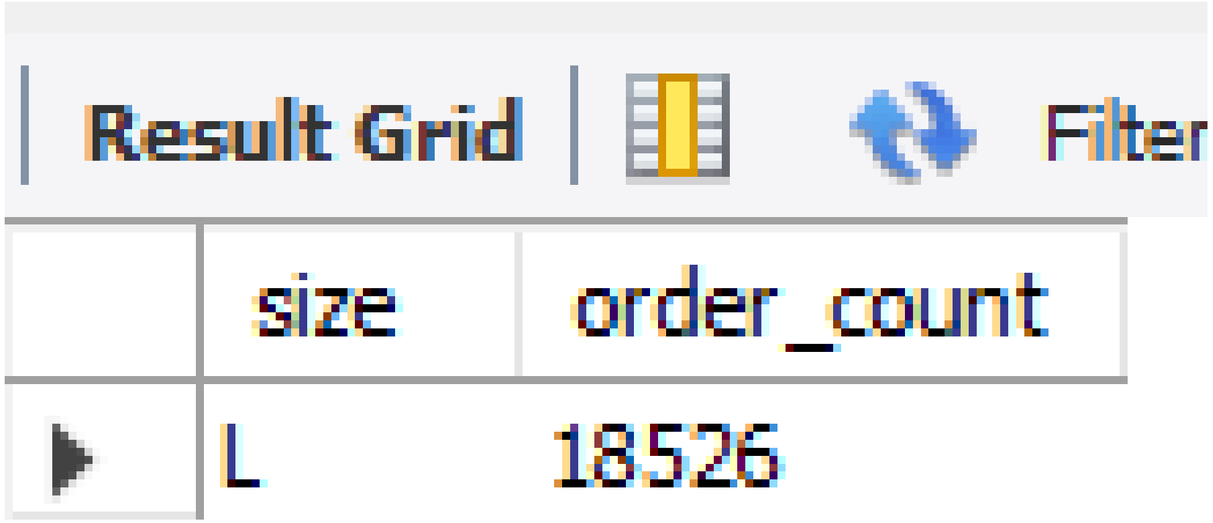
	name	price
▶	The Greek Pizza	35.95

QUERY 4: IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

CODE:

```sql
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
LIMIT 1;
```

RESULT:

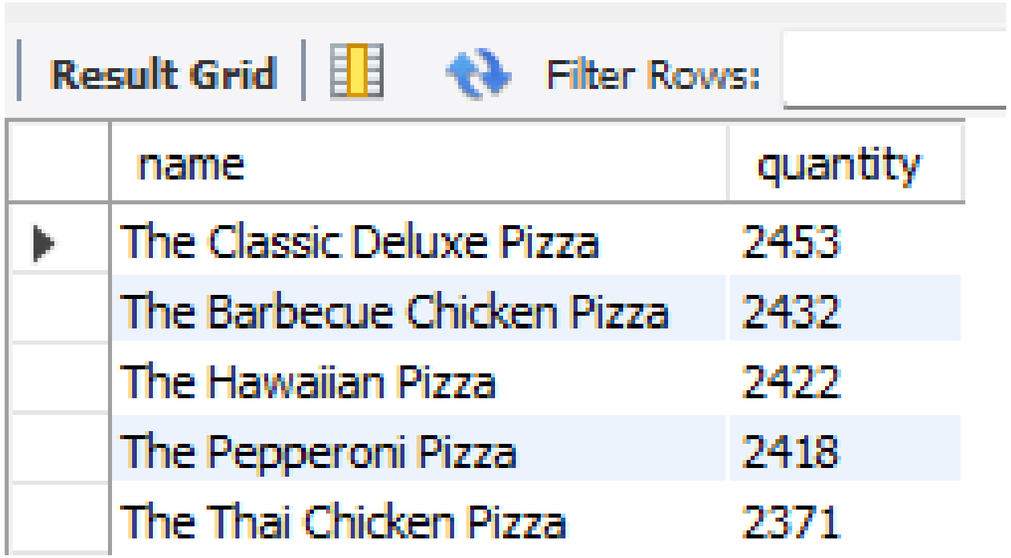


QUERY 5: LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

CODE:

```
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;
```

RESULT:



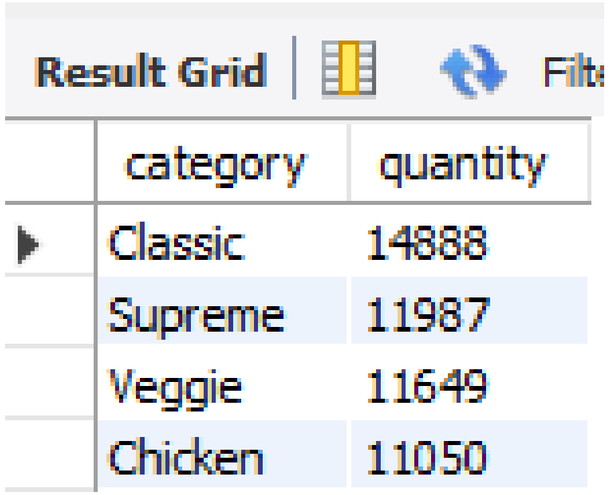
name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

QUERY 6: JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

CODE:

```
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:



category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

QUERY 7: DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

CODE:

```
SELECT
    HOUR(order_time), COUNT(order_id) as order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

RESULT:

Result Grid | Filter Rows:

HOUR(order_time)	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399

QUERY 8: JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

CODE:

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

RESULT:

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

QUERY 9: GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

CODE:

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

RESULT:

avg_pizza_ordered_per_day
138

QUERY 10: DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

CODE:

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) 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 pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

RESULT:

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

QUERY 11: CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

CODE:

```
SELECT
    pizza_types.category,
    ROUND(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,
            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;
```

RESULT:

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

QUERY 12: ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

CODE:

```
SELECT
    orders.order_data,
    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.order_data;
```

RESULT:

order_data	revenue
2015-01-01	2713.850000000004
2015-01-02	2731.8999999999996
2015-01-03	2662.3999999999996
2015-01-04	1755.4500000000003
2015-01-05	2065.95

QUERY 13: DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

CODE:

```
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((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 order_details.pizza_id=pizzas.pizza_id
            GROUP BY pizza_types.category, pizza_types.name) AS a) AS b
            WHERE rn <=3;
```

RESULT:

	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

THANK YOU