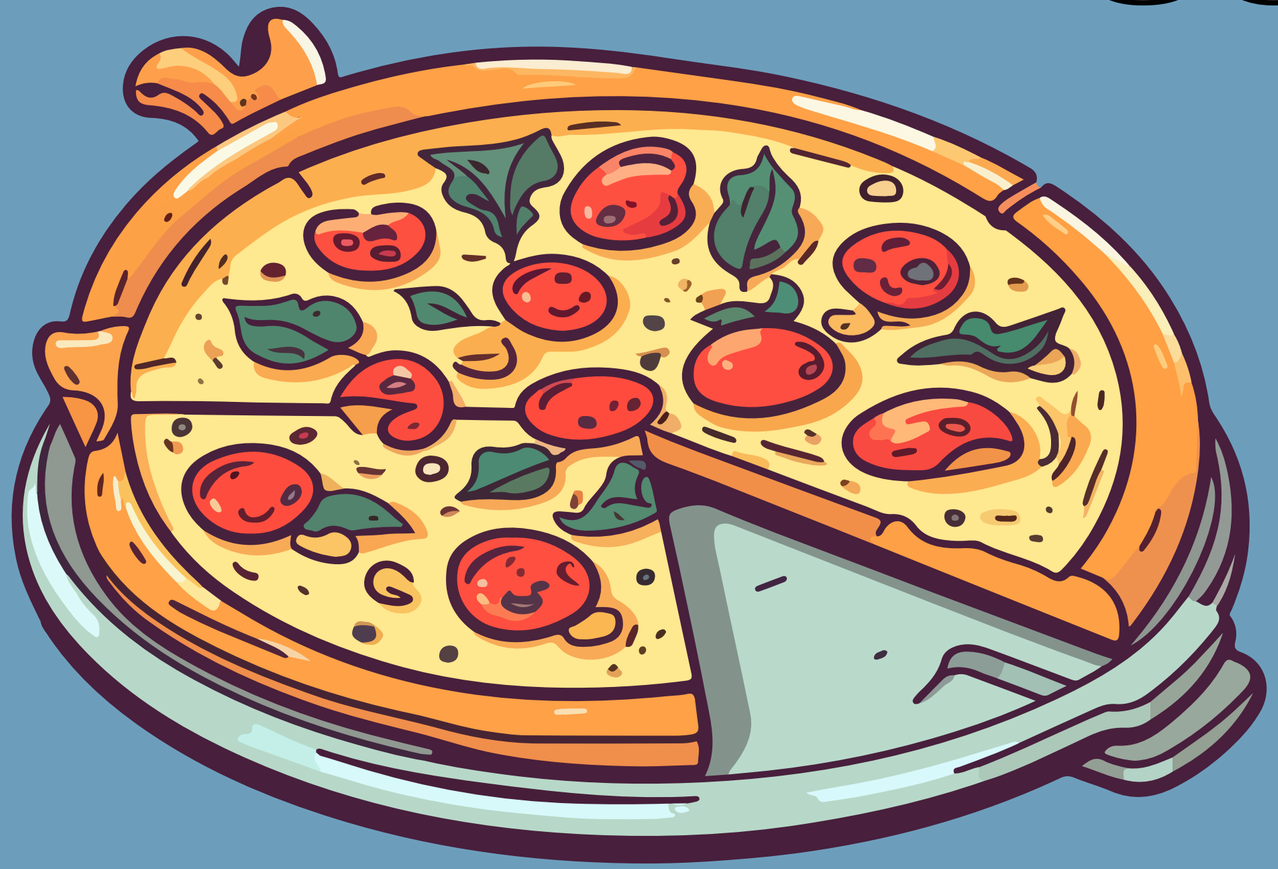
# PIZZA SALES - SQL PROJECT



-ANIKET BHUMBLA

# DATABASES

## pizza_types.csv

File Origin: 1252: Western European (Windows) | Delimiter: Comma | Data Type Detection: Based on first 200 rows

| Column1 | Column2 | Column3 | Column4 |
|---|---|---|---|
| pizza_type_id | name | category | ingredients |
| bbq_ckn | The Barbecue Chicken Pizza | Chicken | Barbecued Chicken, Red Peppers, Green Peppers, Toma... |
| cali_ckn | The California Chicken Pizza | Chicken | Chicken, Artichoke, Spinach, Garlic, Jalapeno Peppers, F... |
| ckn_alfredo | The Chicken Alfredo Pizza | Chicken | Chicken, Red Onions, Red Peppers, Mushrooms, Asiago... |
| ckn_pesto | The Chicken Pesto Pizza | Chicken | Chicken, Tomatoes, Red Peppers, Spinach, Garlic, Pesto... |
| southw_ckn | The Southwest Chicken Pizza | Chicken | Chicken, Tomatoes, Red Peppers, Red Onions, Jalapeno... |
| thai_ckn | The Thai Chicken Pizza | Chicken | Chicken, Pineapple, Tomatoes, Red Peppers, Thai Swee... |
| big_meat | The Big Meat Pizza | Classic | Bacon, Pepperoni, Italian Sausage, Chorizo Sausage |
| classic_dlx | The Classic Deluxe Pizza | Classic | Pepperoni, Mushrooms, Red Onions, Red Peppers, Bacon |
| hawaiian | The Hawaiian Pizza | Classic | Sliced Ham, Pineapple, Mozzarella Cheese |
| ital_cpcllo | The Italian Capocollo Pizza | Classic | Capocollo, Red Peppers, Tomatoes, Goat Cheese, Garlic... |
| napolitana | The Napolitana Pizza | Classic | Tomatoes, Anchovies, Green Olives, Red Onions, Garlic |
| pep_msh_pep | The Pepperoni, Mushroom, and Peppers Pizza | Classic | Pepperoni, Mushrooms, Green Peppers |
| pepperoni | The Pepperoni Pizza | Classic | Mozzarella Cheese, Pepperoni |
| the_greek | The Greek Pizza | Classic | Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Beef C... |
| brie_carre | The Brie Carre Pizza | Supreme | Brie Carre Cheese, Prosciutto, Caramelized Onions, Pea... |
| calabrese | The Calabrese Pizza | Supreme | 'Nduja Salami, Pancetta, Tomatoes, Red Onions, Friggit... |
| ital_supr | The Italian Supreme Pizza | Supreme | Calabrese Salami, Capocollo, Tomatoes, Red Onions, Gr... |
| peppr_salami | The Pepper Salami Pizza | Supreme | Genoa Salami, Capocollo, Pepperoni, Tomatoes, Asiago... |
| prsc_argla | The Prosciutto and Arugula Pizza | Supreme | Prosciutto di San Daniele, Arugula, Mozzarella Cheese |

## pizzas.csv

File Origin: 1252: Western European (Windows) | Delimiter: Comma

| pizza_id | pizza_type_id | size | price |
|---|---|---|---|
| bbq_ckn_s | bbq_ckn | S | 12.75 |
| bbq_ckn_m | bbq_ckn | M | 16.75 |
| bbq_ckn_l | bbq_ckn | L | 20.75 |
| cali_ckn_s | cali_ckn | S | 12.75 |
| cali_ckn_m | cali_ckn | M | 16.75 |
| cali_ckn_l | cali_ckn | L | 20.75 |
| ckn_alfredo_s | ckn_alfredo | S | 12.75 |
| ckn_alfredo_m | ckn_alfredo | M | 16.75 |
| ckn_alfredo_l | ckn_alfredo | L | 20.75 |
| ckn_pesto_s | ckn_pesto | S | 12.75 |
| ckn_pesto_m | ckn_pesto | M | 16.75 |
| ckn_pesto_l | ckn_pesto | L | 20.75 |
| southw_ckn_s | southw_ckn | S | 12.75 |
| southw_ckn_m | southw_ckn | M | 16.75 |
| southw_ckn_l | southw_ckn | L | 20.75 |
| thai_ckn_s | thai_ckn | S | 12.75 |
| thai_ckn_m | thai_ckn | M | 16.75 |
| thai_ckn_l | thai_ckn | L | 20.75 |
| big_meat_s | big_meat | S | 12 |
| big_meat_m | big_meat | M | 16 |

# DATABASES

## order_details.csv

File Origin: 1252: Western European (Windows)

Delimiter: Comma

| order_details_id | order_id | pizza_id | quantity |
|---|---|---|---|
| 1 | 1 | hawaiian_m | 1 |
| 2 | 2 | classic_dlx_m | 1 |
| 3 | 2 | five_cheese_l | 1 |
| 4 | 2 | ital_supr_l | 1 |
| 5 | 2 | mexicana_m | 1 |
| 6 | 2 | thai_ckn_l | 1 |
| 7 | 3 | ital_supr_m | 1 |
| 8 | 3 | prsc_argla_l | 1 |
| 9 | 4 | ital_supr_m | 1 |
| 10 | 5 | ital_supr_m | 1 |
| 11 | 6 | bbq_ckn_s | 1 |
| 12 | 6 | the_greek_s | 1 |
| 13 | 7 | spinach_supr_s | 1 |
| 14 | 8 | spinach_supr_s | 1 |
| 15 | 9 | classic_dlx_s | 1 |
| 16 | 9 | green_garden_s | 1 |
| 17 | 9 | ital_cpclio_l | 1 |
| 18 | 9 | ital_supr_l | 1 |
| 19 | 9 | ital_supr_s | 1 |
| 20 | 9 | mexicana_s | 1 |

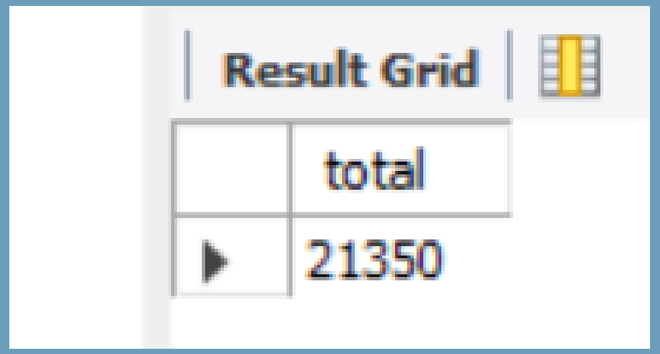
## orders.csv

File Origin: 1252: Western European (Windows)

| order_id | date | time |
|---|---|---|
| 1 | 01-01-2015 | 11:38:36 |
| 2 | 01-01-2015 | 11:57:40 |
| 3 | 01-01-2015 | 12:12:28 |
| 4 | 01-01-2015 | 12:16:31 |
| 5 | 01-01-2015 | 12:21:30 |
| 6 | 01-01-2015 | 12:29:36 |
| 7 | 01-01-2015 | 12:50:37 |
| 8 | 01-01-2015 | 12:51:37 |
| 9 | 01-01-2015 | 12:52:01 |
| 10 | 01-01-2015 | 13:00:15 |
| 11 | 01-01-2015 | 13:02:59 |
| 12 | 01-01-2015 | 13:04:41 |
| 13 | 01-01-2015 | 13:11:55 |
| 14 | 01-01-2015 | 13:14:19 |
| 15 | 01-01-2015 | 13:33:00 |
| 16 | 01-01-2015 | 13:34:07 |
| 17 | 01-01-2015 | 13:53:00 |
| 18 | 01-01-2015 | 13:57:08 |
| 19 | 01-01-2015 | 13:59:09 |
| 20 | 01-01-2015 | 14:03:08 |

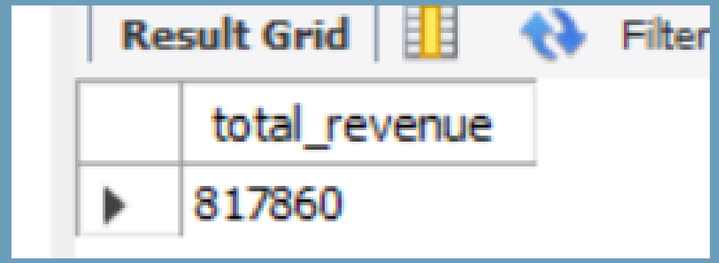
# find the total number of orders

```sql
select
count(order_id) as total
from orders;
```



# find the total revenue earned

```sql
select round(sum(orders_detail.quantity *pizzas.price)) as total_revenue
from orders_detail
inner join pizzas
on orders_detail.pizza_id = pizzas.pizza_id ;
```



# find the highest priced pizza

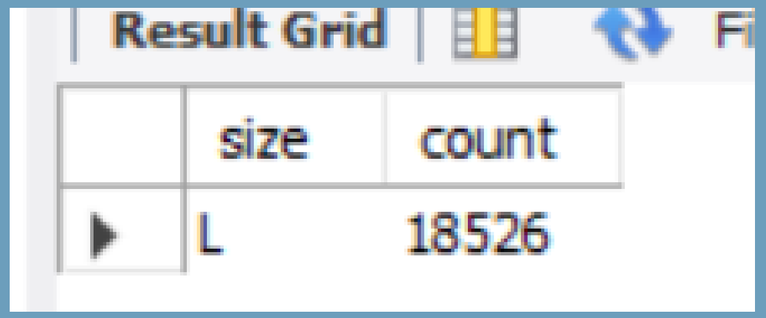
```sql
select pizzas.price, pizza_types.name ,pizzas.pizza_id
from pizzas
join pizza_types
on pizzas.pizza_type_id=pizza_types.pizza_type_id
order by price desc limit 1;
```

Result Grid | Filter Rows:

| price | name | pizza_id |
|---|---|---|
| 35.95 | The Greek Pizza | the_greek_xxl |

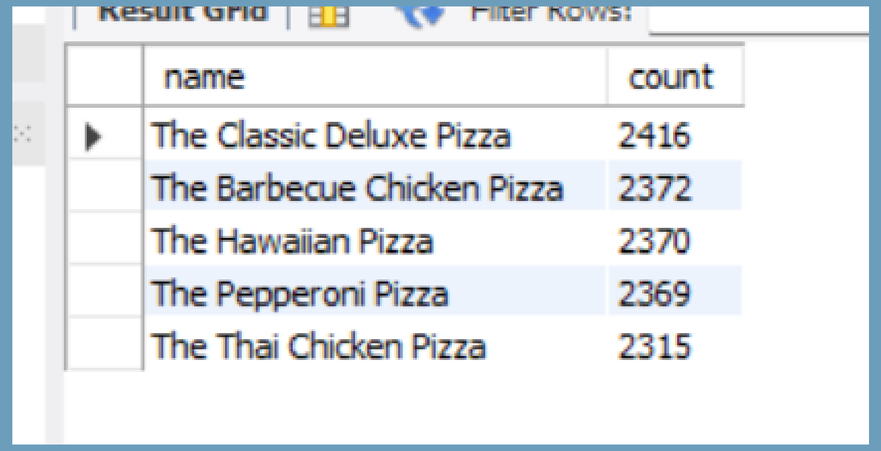
# Identify the most common pizza size ordered

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



# list the top 5 most ordered pizza types with thier quantity

```sql
select pizza_types.name,count(orders_detail.quantity) as count from pizzas
join pizza_types
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join orders_detail on orders_detail.pizza_id=pizzas.pizza_id
group by pizza_types.name order by count desc limit 5 ;
```



Result Grid | Filter Rows:

| name | count |
|---|---|
| The Classic Deluxe Pizza | 2416 |
| The Barbecue Chicken Pizza | 2372 |
| The Hawaiian Pizza | 2370 |
| The Pepperoni Pizza | 2369 |
| The Thai Chicken Pizza | 2315 |

# Find Total Quantity of each pizza category ordered

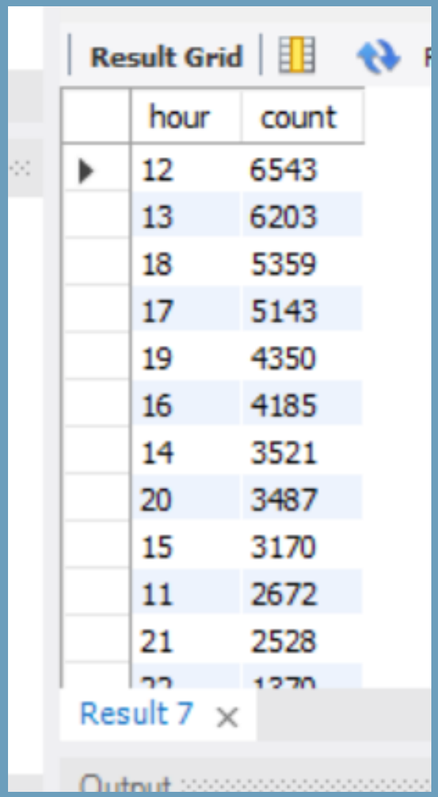
```sql
select pizza_types.category,count(orders_detail.quantity) as count
from pizza_types
join pizzas on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_detail on pizzas.pizza_id=orders_detail.pizza_id
group by pizza_types.category
order by count desc;
```

Result Grid | Filte

| category | count |
|---|---|
| Classic | 14579 |
| Supreme | 11777 |
| Veggie | 11449 |
| Chicken | 10815 |

# Determine the distribution of orders by the hour of the day

```
select hour(orders.order_time) as hour,
 count(orders_detail.quantity) as count
 from orders_detail join orders
on orders.order_id = orders_detail.order_id
group by hour order by count desc;
```



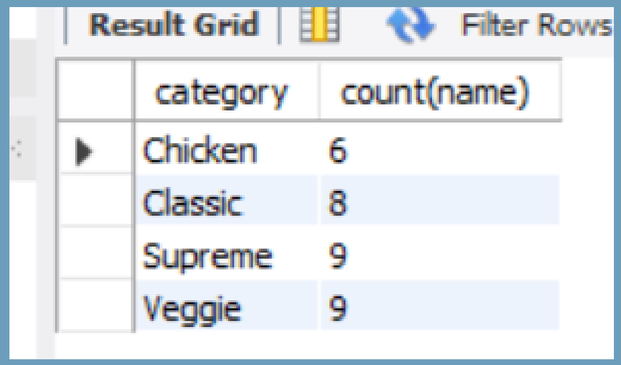
Result Grid

| hour | count |
|---|---|
| 12 | 6543 |
| 13 | 6203 |
| 18 | 5359 |
| 17 | 5143 |
| 19 | 4350 |
| 16 | 4185 |
| 14 | 3521 |
| 20 | 3487 |
| 15 | 3170 |
| 11 | 2672 |
| 21 | 2528 |

Result 7

# Join Relevant Table to find category wise distribution of pizza

```
select category, count(name) from pizza_types
group by category;
```




| category | count(name) |
|---|---|
| Chicken | 6 |
| Classic | 8 |
| Supreme | 9 |
| Veggie | 9 |

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

```
select round(avg(sum)) as avg from
    (select orders.order_date,sum(orders_detail.quantity) as sum
    from orders_detail
    join orders
    on orders.order_id =orders_detail.order_id
    group by orders.order_date) as order_quantity;
```

Result Grid

| | avg |
|---|---|
| ▶ | 138 |

# Determine the top 3 most ordered pizza types based on revenue

```sql
select pizza_combined.name, sum(orders_detail.quantity* pizza_combined.price)
as total from orders_detail
join (select pizzas.pizza_id, pizza_types.name, pizzas.price from pizza_types
join pizzas
on pizza_types.pizza_type_id =pizzas.pizza_type_id) as pizza_combined
on orders_detail.pizza_id = pizza_combined.pizza_id
group by pizza_combined.name
order by total desc limit 3;
```

Result Grid | Filter Rows:

| name | total |
|---|---|
| The Thai Chicken Pizza | 43434.25 |
| The Barbecue Chicken Pizza | 42768 |
| The California Chicken Pizza | 41409.5 |

# Calculate the percentage contribution of each pizza type to the revenue

```sql
select name,
round(sum(100*pizzas.price*orders_detail.quantity)/
(select round(sum(pizzas.price* orders_detail.quantity)) as total
from orders_detail
join pizzas on orders_detail.pizza_id=pizzas.pizza_id)) as sum from pizza_types
join pizzas
on pizzas.pizza_type_id=pizza_types.pizza_type_id
join orders_detail
on orders_detail.pizza_id=pizzas.pizza_id
group by name;
```

| name | sum |
|---|---|
| The Hawaiian Pizza | 4 |
| The Classic Deluxe Pizza | 5 |
| The Five Cheese Pizza | 3 |
| The Italian Supreme Pizza | 4 |
| The Mexicana Pizza | 3 |
| The Thai Chicken Pizza | 5 |
| The Prosciutto and Arugula Pizza | 3 |
| The Barbecue Chicken Pizza | 5 |
| The Greek Pizza | 3 |
| The Spinach Supreme Pizza | 2 |
| The Green Garden Pizza | 2 |
| The Italian Capocollo Pizza | 3 |

Result 49

# Analyze the cumilative revenue generated over time

```sql
select order_date, sum(total) over(order by order_date)
from (select orders.order_date, round(sum(pizzas.price* orders_detail.quantity)) as total
from orders
join orders_detail
on orders_detail.order_id=orders.order_id
join pizzas on orders_detail.pizza_id=pizzas.pizza_id
group by orders.order_date) as sales;
```

Result Grid | Filter Rows:

| order_date | sum(total) over(order by order_date) |
|---|---|
| 2015-01-01 | 2714 |
| 2015-01-02 | 5446 |
| 2015-01-03 | 8108 |
| 2015-01-04 | 9863 |
| 2015-01-05 | 11929 |
| 2015-01-06 | 14358 |
| 2015-01-07 | 16560 |

Result 6