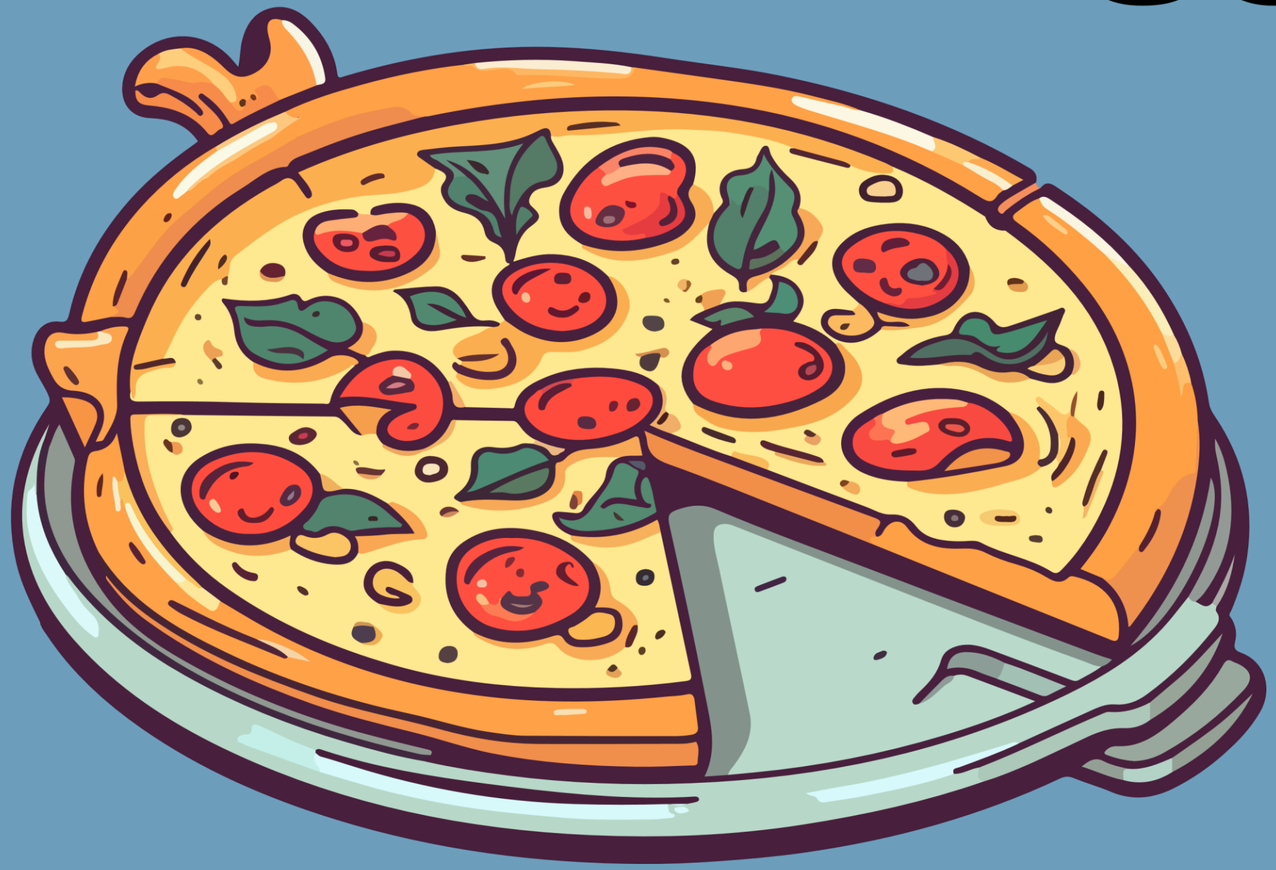
PIZZA SALES

PIZZA SALES -

SQL PROJECT



SQL PROJECT By Aadil Nazir

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

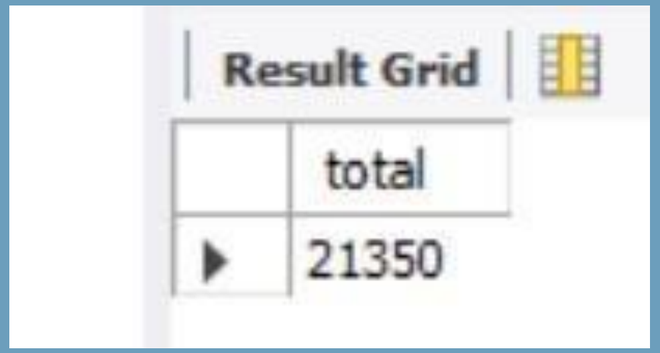
orders.csv

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

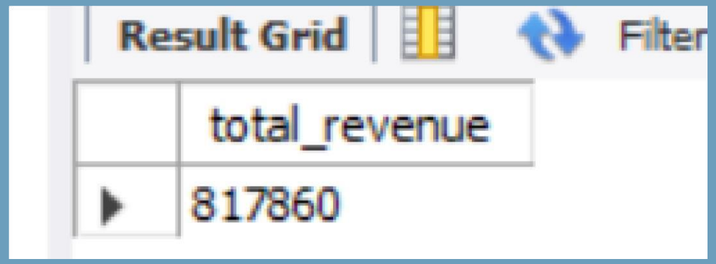
find the total number of orders

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



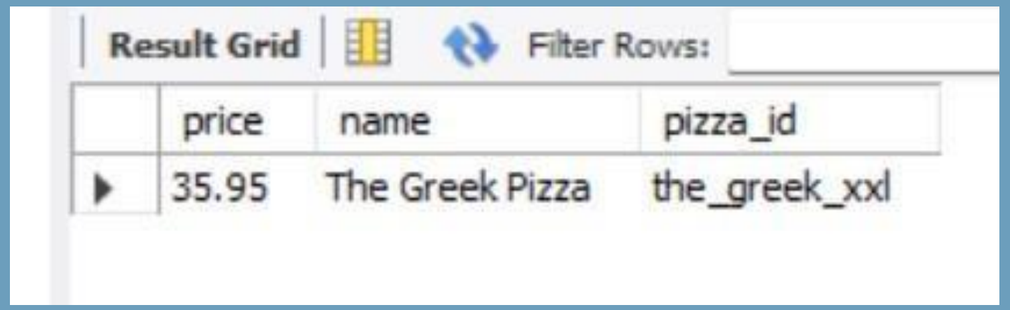
find the total revenue earned

```
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 ;
```


Result Grid
Filter
total_revenue
817860

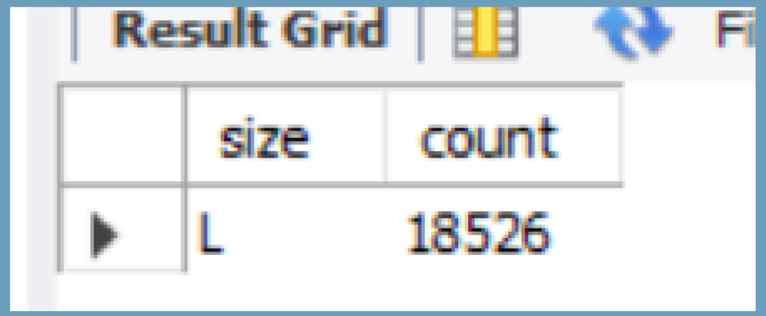
find the highest priced pizza

```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;
```



Identify the most common pizza size ordered

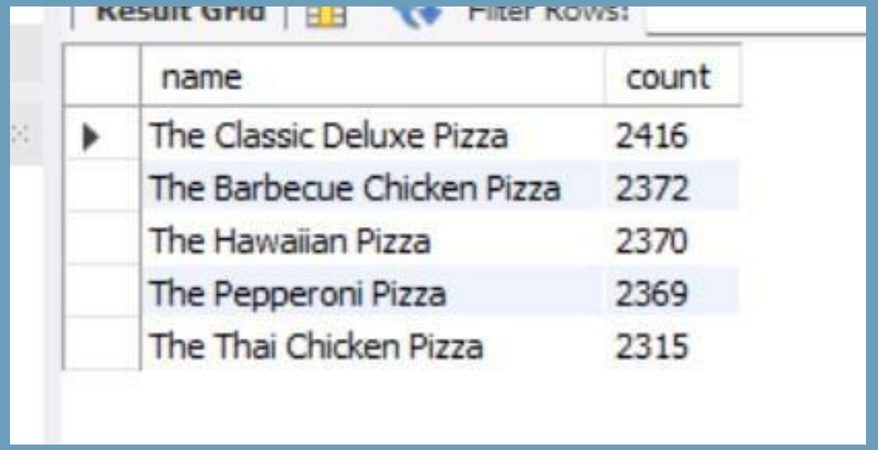
```
select size,count(orders_detail.quantity) as count from  pizzas
join orders_detail on orders_detail.pizza_id = pizzas.pizza_id
group by pizzas.size
order by count desc limit 1;
```



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 ;
```

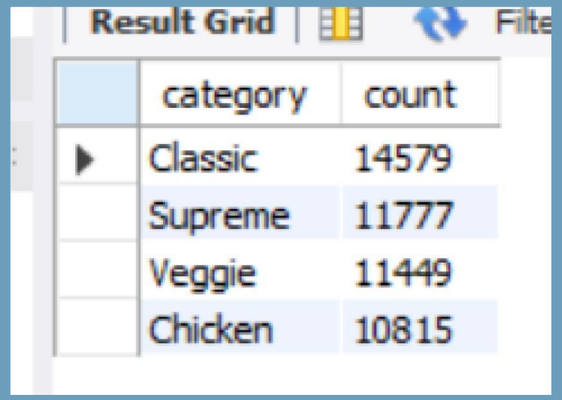


Result Grid | Filter Rows:

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

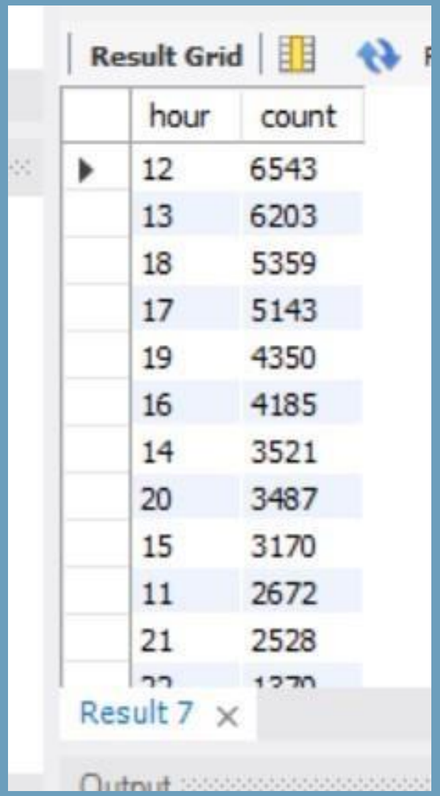
```
select pizza_types.category,count(orders_detail.quantity) as count
from pizza_types
join pizzas on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_detail on pizzas.pizza_id=orders_detail.pizza_id
group by pizza_types.category
order by count desc;
```



category	count
Classic	14579
Supreme	11777
Veggie	11449
Chicken	10815

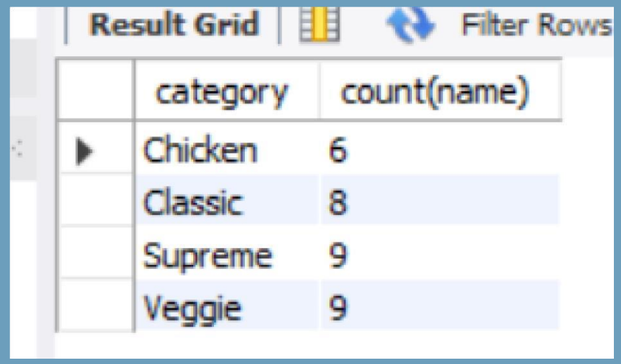
Determine the distribution of orders by the hour of the day

```sql
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;
```



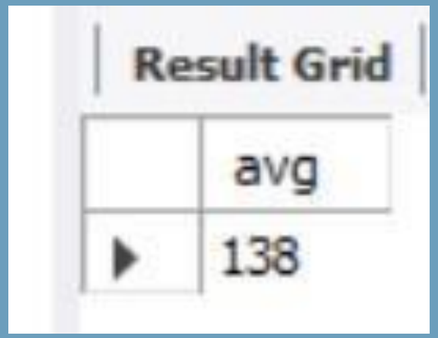
Join Relevant Table to find category wise distribution of pizza

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



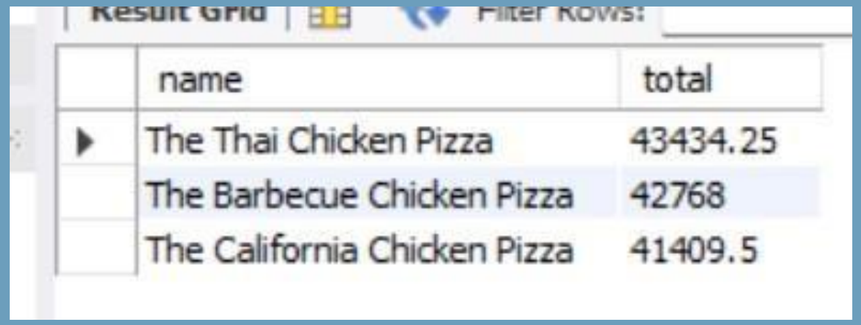
Group the orders by date and calculate the average number of pizzas ordered per day

```sql
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;
```



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;
```



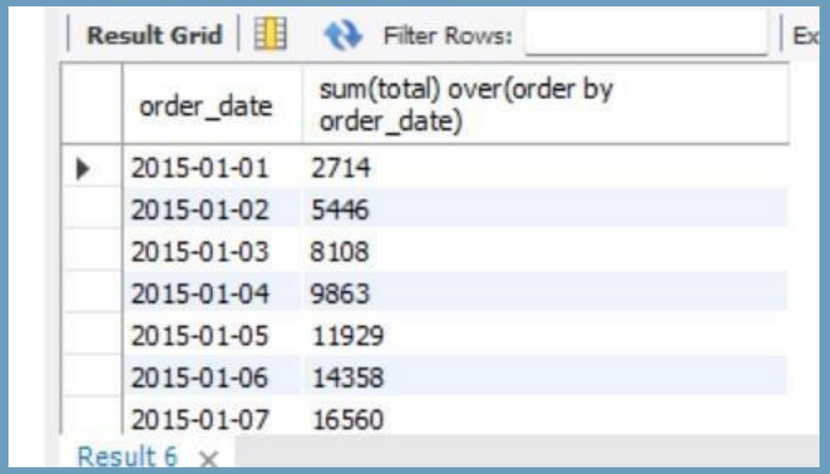
	name	total
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

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;
```