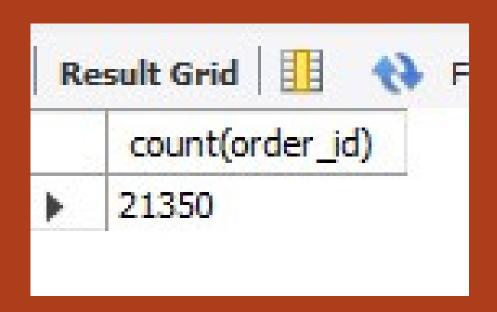
DATA
ANALYSIS
FULL
PORTFOLIO
PROJECT

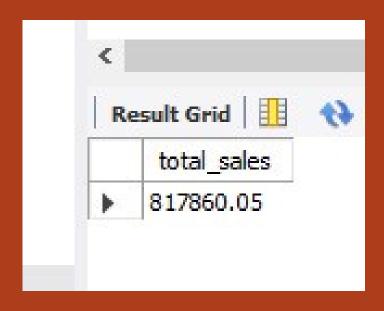




```
1 -- Retrieve the total number of orders placed.
2
3 • select count(order_id) from orders;
```

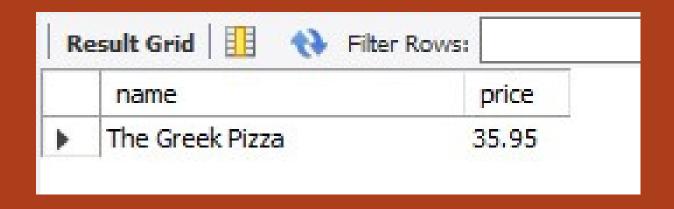


```
-- Calculate the total revenue generated from pizza sales.
select
round(sum(order_details.quantity * pizzas.price),2) as total_sales
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
```



```
• 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;
```

-- Identify the highest-priced pizza.



```
1 -- Identify the most common pizza size ordered.
2 • select
3  pizzas.size , count(order_details.quantity)
4  from pizzas join order_details
```

on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size;

	size	count(order_details.quantity)
Þ	M	15385
	L	18526
	S	14137
	XL	544
	XXL	28

-- 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 4;
```

name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
	The Classic Deluxe Pizza The Barbecue Chicken Pizza

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

```
select
```

```
sum(order_details.quantity) as quantity , pizza_types.category
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join pizza_types
on pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category order by quantity desc limit 4;
```

Re	esult Grid	Filter Rows
	quantity	category
Þ	14888	Classic
	11987	Supreme
	11649	Veggie
	11050	Chicken

```
-- Determine the distribution of orders by hour of the day.
SELECT
HOUR(order_time) AS order_hour,
```

COUNT(order_id) AS order_count

FROM

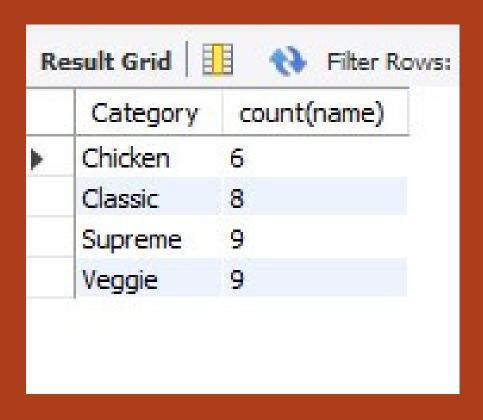
orders

GROUP BY

HOUR(order_time) ORDER BY order_count DESC LIMIT 10;

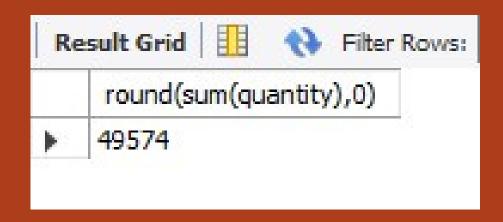
	order_hour	order_count
Þ	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231

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

```
select round(sum(quantity),0) from
(select orders.order_date , sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity;
```



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

SELECT

```
pizza_types.name AS pizza_name,
SUM(pizzas.price * order_details.quantity) AS total_revenue
FROM pizzas
JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY total_revenue DESC LIMIT 3;
```

Re	esult Grid 🔢 🙌 Filter Ro	ws:
Г	pizza_name	total_revenue
	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

```
-- 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 desc) as rm
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 rm <=3;
```

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
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.7000000
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

```
-- Analyze the cumulative revenue generated over time.
 select order date,
 ROUND(SUM(revenue) OVER (ORDER BY order date), 2) AS cum revenue
 from

⇒ (select orders.order 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.order_date ) as sales ORDER BY order_date DESC
 LIMIT 10;
```

J	Result Grid	♦ Filter Rows
	order_date	cum_revenue
-	2015-12-31	817860.05
	2015-12-30	814944.05
	2015-12-29	813606.25
	2015-12-28	812253
	2015-12-27	810615.8
	2015-12-26	809196.8
	2015-12-24	807553,75