Title: **SQL Project Analysis**

Subtitle: Comprehensive Analysis of Pizza Sales Data

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INTRODUCTION

- Overview of the pizza sales data
- Purpose of the analysis
- Key metrics and insights

-- Retrieve the total number of orders placed

```
select count(order_id) as total_orders from orders;
```

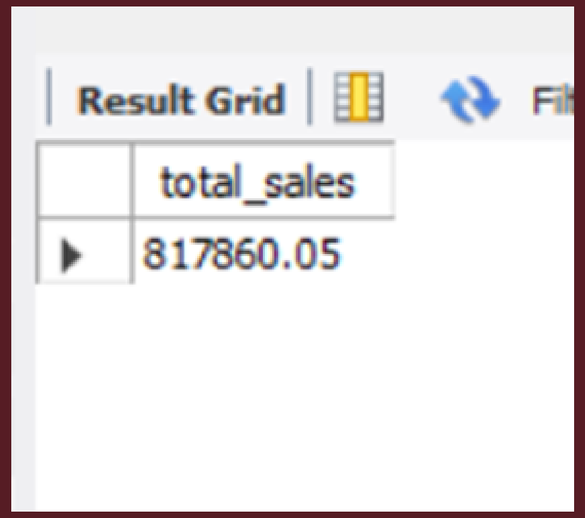
Result Grid | Filt

	total_orders
▶	21350

-- 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
```



-- 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;
```

Result Grid | Filter Rows:

name	price
The Greek Pizza	35.95

-- Identify the most common pizza size ordered.

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

Result Grid | Filter Rows:

size	a
L	18526
M	15385
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 s
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 s DESC
LIMIT 5;
```

Result Grid | Filter Rows:

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

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

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

Result Grid | Filter Row

category	s
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

-- Determine the distribution of orders by hour of the day.

```
SELECT
HOUR(time) AS hour, COUNT(order_id)
FROM
orders
GROUP BY HOUR(time);
```

hour	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642

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

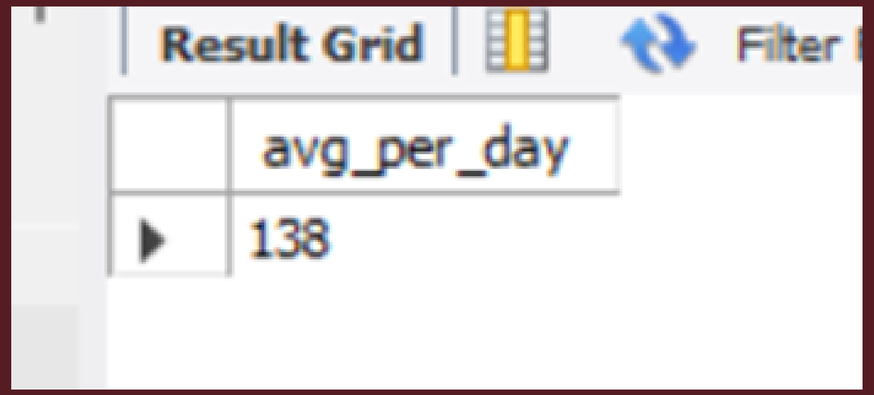
```
SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category
```

Result Grid | Filter Rows:

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(quantity), 0) as avg_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;
```



-- 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 = 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 Grid | Filter Rows:

name	revenue
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 total revenue.

```
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 Grid | Filter R

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

-- 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;
```

Result Grid | Filter Rows:

date	cum_revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4

-- 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 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 Grid | Filter Rows:

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	32265.70000000065

THANK YOU