

# **OBJECTIVE:**

ANALYZE PIZZA SALES DATA TO UNCOVER INSIGHTS

AND TRENDS.

# **DATA SUMMARY:**

**TOTAL TABLES: 4** 

• ORDERS: 21,350 RECORDS.

- ORDER DETAILS: 48,620 RECORDS.
- PIZZAS: 96 RECORDS.
- PIZZA TYPES: 32 RECORDS.





# PROCESS:

Downloaded CSV files. Imported data into SQL using MySQL Workbench

# **VERIFICATION:**

Checked data types and primary/foreignkey constraints.

# QUERIES WITH RESULTS

TOTAL NUMBER OF ORDERS PLACED.

```
SELECT

COUNT(*) AS Total_number_of_orders

FROM

orders;
```

#### TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT

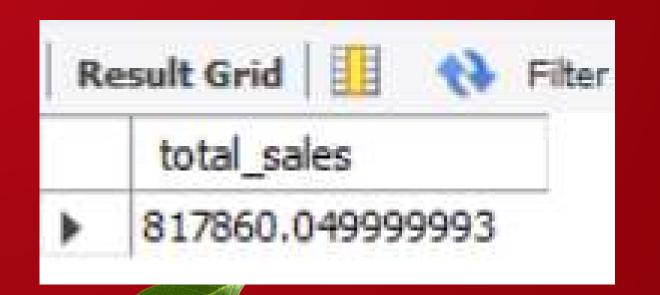
SUM(o.quantity * p.price) AS total_sales

FROM

order_details o

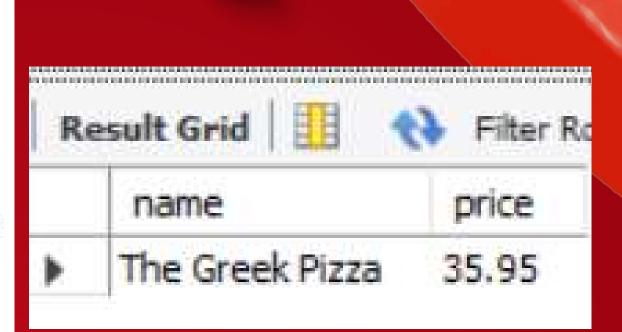
JOIN

pizzas p ON o.pizza_id = p.pizza_id;
```



#### IDENTIFIED THE HIGHEST-PRICED PIZZA.

```
SELECT
    pt.name, p.price
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```



#### MOST COMMON PIZZA SIZE ORDERED.

```
COUNT(od.order_details_id) AS order_count, p.size

FROM

order_details od

JOIN

pizzas p ON od.pizza_id = p.pizza_id

GROUP BY p.size

ORDER BY order_count DESC

LIMIT 1
```





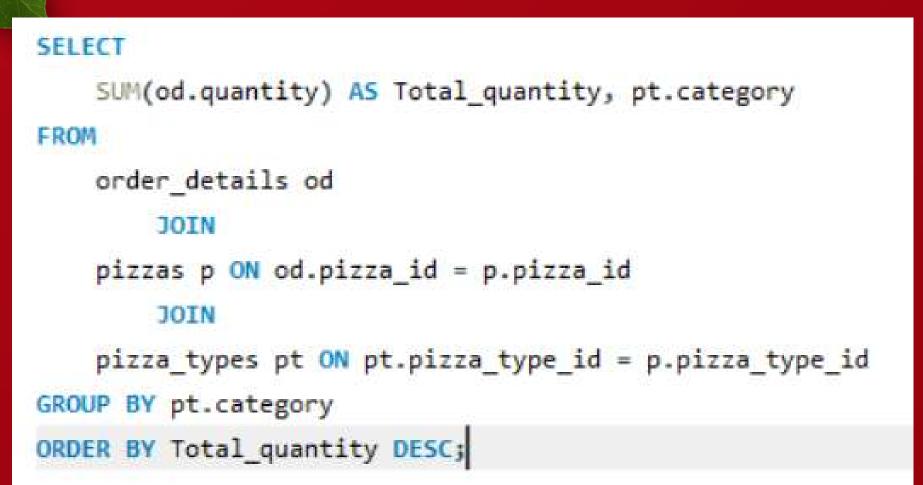
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#### TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pt.name, SUM(od.quantity) AS quantity
FROM
    order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.name
ORDER BY quantity DESC
LIMIT 5;
```

	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

#### MOST ORDERED PIZZA CATEGORY







SELECT

HOUR(order\_time) AS Hours, COUNT(order\_id) AS Orders\_count

FROM

orders

# CATEGORY DISTRIBUTION

#### SELECT

GROUP BY Hours;

category, COUNT(name)

FROM

pizza\_types

GROUP BY category;

Result Grid		Filter Rows
	Hours	Orders_count
Þ	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1





Filter R

	category	count(name)
<b> </b>	Chicken	6
	Classic	8
	Supreme	9
) <u>.</u>	Veggie	9

#### PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT
    pt.category, round(SUM(p.price * od.quantity)/(SELECT
    round(SUM(od.quantity * p.price),0) AS total_sales
FROM
   order details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id) * 100,2) as revenue
FROM
    pizza_types pt
        JOIN
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
    group by pt.category
    order by revenue desc;
```



#### **CUMULATIVE REVENUE GENERATED OVER TIME**

select order\_date, sum(revenue) over(order by order\_date) as Cummulative\_revenue from
(select o.order\_date, sum(od.quantity \* p.price) as revenue from orders o
join order\_details od on o.order\_id = od.order\_id
join pizzas p on p.pizza\_id = od.pizza\_id
group by o.order\_date) as total\_revenue;

Re	esult Grid	♦ Filter Rows:
	order_date	Cummulative_revenue
•	2015-01-01	2713.85000000000004
	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
	2015-01-10	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.7000000000004



#### TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
select category, name, revenue, top_3 from

(select category, name, revenue, rank() over(partition by category order by revenue desc) as Top_3 from

(select pt.category,pt.name, sum(od.quantity * p.price) as revenue from pizza_types pt
join pizzas p on p.pizza_type_id = pt.pizza_type_id
join order_details od on od.pizza_id = p.pizza_id
group by pt.category,pt.name) as Total_revenue) as rn
where top_3 <= 3;</pre>
```

	category	name	revenue	top_3
•	Chicken	The Thai Chicken Pizza	43434.25	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3
	Classic	The Classic Deluxe Pizza	38180.5	1
	Classic	The Hawaiian Pizza	32273.25	2
	Classic	The Pepperoni Pizza	30161.75	3
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2
	Supreme	The Sicilian Pizza	30940.5	3
	Veggie	The Four Cheese Pizza	32265.70000000065	1
	Veggie	The Mexicana Pizza	26780.75	2
	Veggie	The Five Cheese Pizza	26066.5	3

# **CONCLUSION:**

## **KEY INSIGHTS**

• Cumulative revenue has shown steady growth, with peaks during weekends and holidays.

 Large size pizzas from specific categories (Classic, Supreme, Veggie, chicken) consistently generate the highest revenue.

## **ACTIONABLE RECOMMENDATIONS**

 Focus campaigns on popular pizza types and sizes, offering promotions to boost sales

 Segment customers by preferences and offer personalized deals, especially for frequent large pizza buyers

