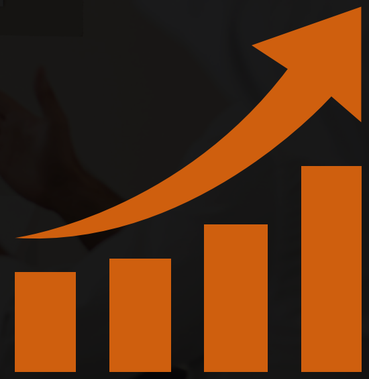
PIZZA SALES REPORT

presented by
Divyanshu Wakodikar

INTRODUCTION

Welcome to our pizza sales report presentation. In this report, we will analyze the pizza sales dataset and analyze few questions by using mySQL



Github Link

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

Query 1 | SQL File 1* | SQL File 2* | SQL File 3* | SQL File 4* | SQL File 5* | SQL

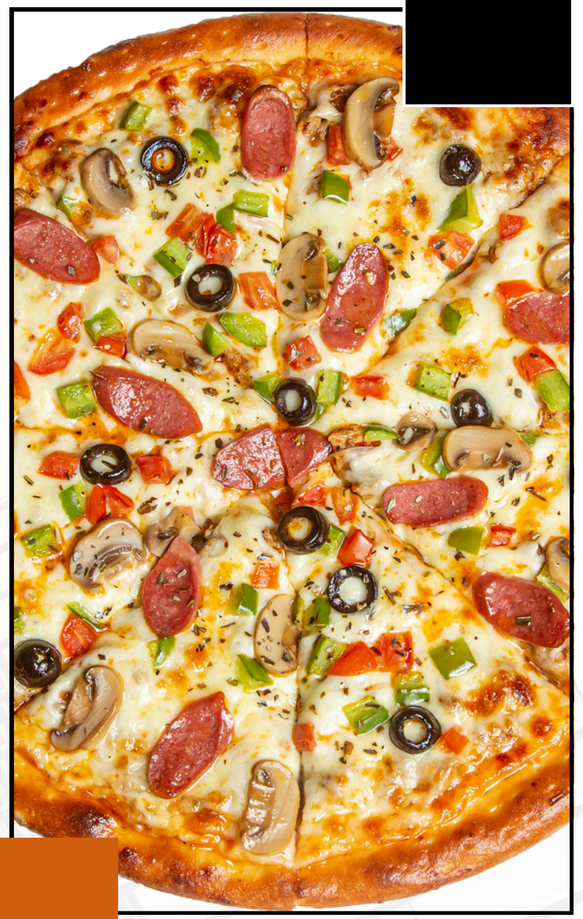
Limit to 1000 rows

```
1    -- Retrieve the total number of orders placed.
2 •  select count(order_id) as total_ordes from orders;
3
4
```

OUTPUT-

Result Grid | Filter Rows:

total_ordes
21350



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SQL File 1* | SQL File 2* | SQL File 3* | SQL File 4* | SQL File 5

Limit to 1000 rows

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

Result Grid | Filter Rows:

revenue
817860.049999993

IDENTIFY THE HIGHEST-PRICED PIZZA.

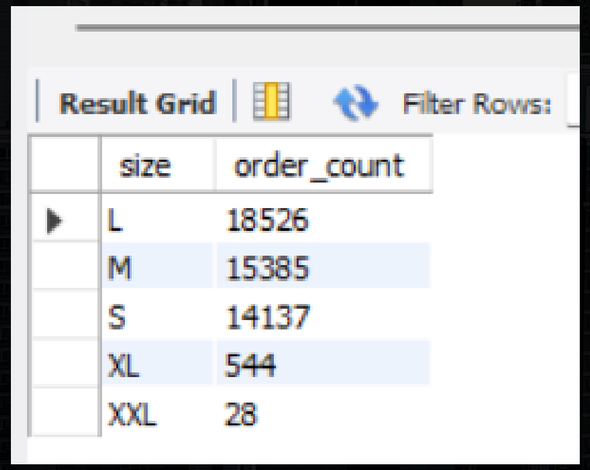
```
Limit to 1000 rows

1   -- Identify the highest-priced pizza.
2 • select pizza_types.name,pizzas.price
3   from pizza_types join pizzas
4   on pizza_types.pizza_type_id=pizzas.pizza_type_id
5   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.

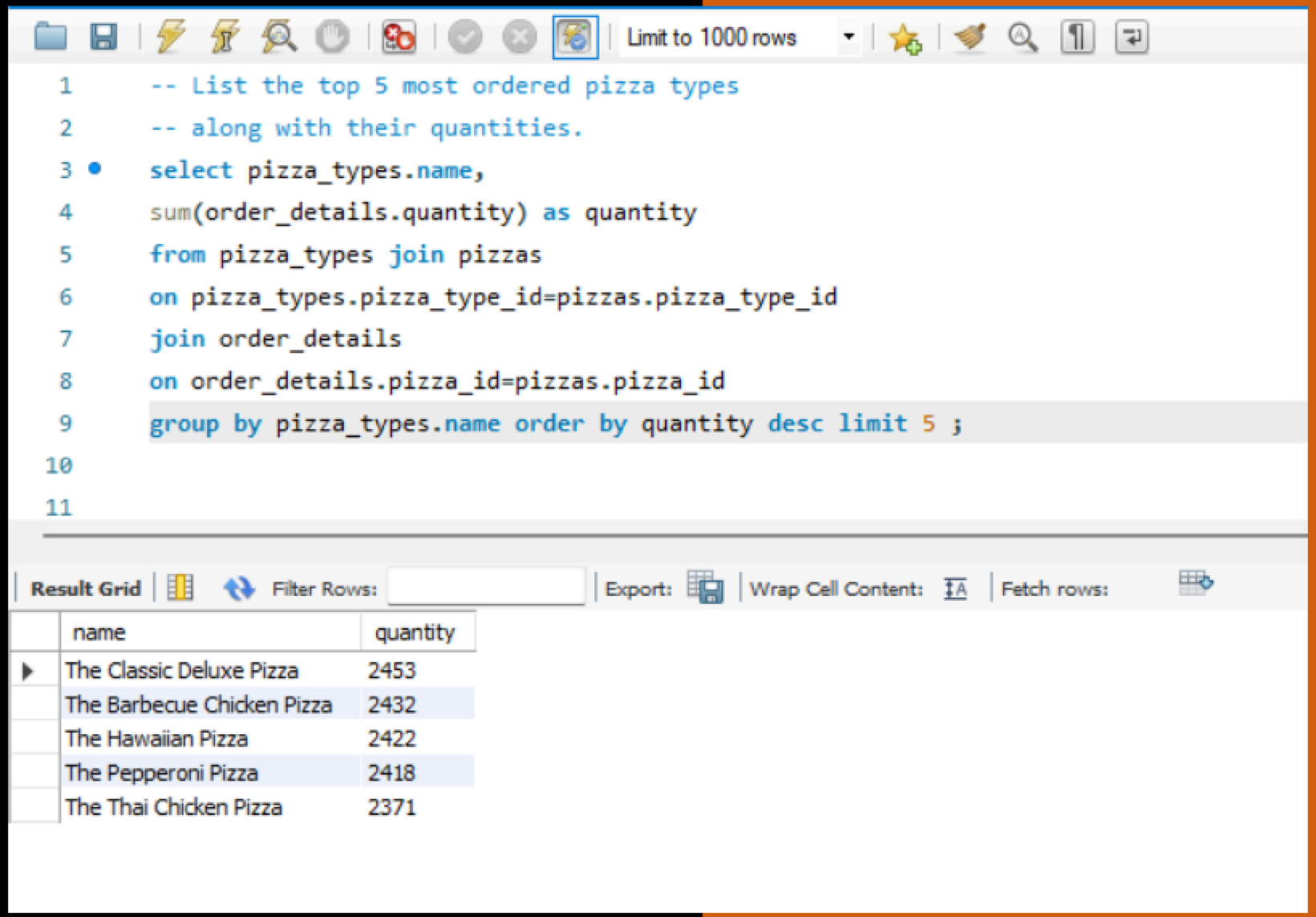
```sql
-- Identify the most common pizza size ordered.

select pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on pizzas.pizza_id=order_details.pizza_id
group by pizzas.size order by order_count desc;
```



Result Grid | Filter Rows:

size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```sql
-- Join the necessary tables to find the total quantity
-- of each pizza category ordered.
SELECT pizza_types.category, SUM(order_details.quantity) AS total_quantity
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category;
```

Result Grid

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
-- Determine the distribution of orders by hour of the day.
SELECT EXTRACT(HOUR FROM order_time) AS order_hour,
COUNT(*) AS total_orders
FROM orders
GROUP BY order_hour
ORDER BY order_hour;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_hour	total_orders
9	1
10	8
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.

```sql
-- Join relevant tables to find the category-wise distribution of pizzas.
SELECT pizza_types.category, COUNT(*) AS total_orders
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category
ORDER BY total_orders DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	total_orders
Classic	14579
Supreme	11777
Veggie	11449
Chicken	10815

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```sql
-- Group the orders by date and
-- calculate the average number of pizzas ordered per day.

SELECT order_date, AVG(total_quantity) AS average_pizzas_ordered
FROM (
    SELECT orders.order_date, SUM(order_details.quantity) AS total_quantity
    FROM orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date
) AS daily_orders
GROUP BY order_date
ORDER BY order_date;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_date	average_pizzas_ordered
2015-01-01	162.0000
2015-01-02	165.0000
2015-01-03	158.0000
2015-01-04	106.0000
2015-01-05	125.0000
2015-01-06	147.0000
2015-01-07	138.0000
2015-01-08	173.0000
2015-01-09	127.0000
2015-01-10	146.0000
2015-01-11	116.0000
2015-01-12	119.0000

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

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

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

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	total_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.

```sql
-- Calculate the percentage contribution of each pizza type to total revenue.
Open a script file in this editor name,
SUM(order_details.quantity * pizzas.price) AS pizza_revenue,
SUM(order_details.quantity * pizzas.price) / (SELECT SUM(order_details.quantity * pizzas.price)
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100 AS percentage_contribution
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.name
ORDER BY percentage_contribution DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	pizza_revenue	percentage_contribution
The Thai Chicken Pizza	43434.25	5.310719113863108
The Barbecue Chicken Pizza	42768	5.2292565213327595
The California Chicken Pizza	41409.5	5.063152308270878
The Classic Deluxe Pizza	38180.5	4.668341484585331
The Spicy Italian Pizza	34831.25	4.258827656394306
The Southwest Chicken Pizza	34705.75	4.243482732773205
The Italian Supreme Pizza	33476.75	4.093212524563375
The Hawaiian Pizza	32273.25	3.9460602092008625
The Four Cheese Pizza	32265.70000000065	3.945137068377521
The Sicilian Pizza	30940.5	3.7831044565632306
The Pepperoni Pizza	30161.75	3.687886454412373
The Greek Pizza	28454.100000000013	3.4790915634038195

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```sql
-- Analyze the cumulative revenue generated over time.
SELECT order_date,
       SUM(daily_revenue) OVER (ORDER BY order_date) AS cumulative_revenue
FROM (
    SELECT orders.order_date,
           SUM(order_details.quantity * pizzas.price) AS daily_revenue
    FROM orders
    JOIN order_details ON orders.order_id = order_details.order_id
    JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
    GROUP BY orders.order_date
) AS revenue_per_day
ORDER BY order_date;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_date	cumulative_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
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```sql
-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
SELECT category, name, pizza_revenue
FROM (
    SELECT pizza_types.category,
pizza_types.name,
SUM(order_details.quantity * pizzas.price) AS pizza_revenue,
RANK() OVER (PARTITION BY pizza_types.category
ORDER BY SUM(order_details.quantity * pizzas.price) DESC) AS revenue_rank
    FROM order_details
    JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
    JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    GROUP BY pizza_types.category, pizza_types.name
) AS ranked_revenue
WHERE revenue_rank <= 3
ORDER BY category, revenue_rank;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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