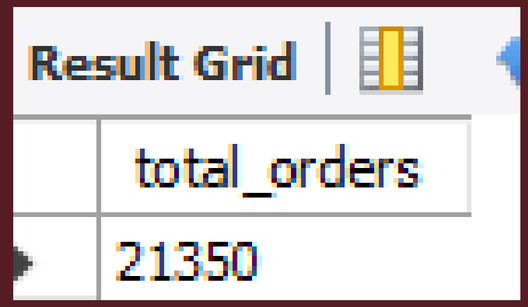
PIZZA SALES SQL REPORT

INTRODUCTION

My name is Yogesh Kumar, and I have over seven years of experience in operations and project management. This report demonstrates my data analytics skills through an analysis of pizza sales data using SQL. The purpose of this analysis is to provide insights into sales performance across different regions, identify the most popular pizza varieties, and understand customer purchasing patterns.

Retrieve total number of order placed

```sql
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(order_details.quautity * pizzas.price),
            2) AS total_sales
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid

	total_sales
▶	664973.5

Identity the highest priced pizza

```sql
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 Ro

name	price
The Greek Pizza	35.95

Identify the most common pizza size oredered

```sql
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 R

size	order_count
L	15084
M	12514
S	11451
XL	448
XXL	23

List the top 5 most ordered pizza types along with their quantities

```sql
SELECT
    pizza_types.name, SUM(order_details.quautity) AS quautity
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 quautity DESC
LIMIT 5;
```

Result Grid | Filter Rows:

name	quautity
The Barbecue Chicken Pizza	1995
The Pepperoni Pizza	1980
The Classic Deluxe Pizza	1975
The Hawaiian Pizza	1938
The California Chicken Pizza	1903

Join the necessary tables to find the total quantity of each pizza category oreder

```sql
SELECT
    pizza_types.category,
    SUM(order_details.quautity) AS quautity
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 quautity DESC;
```

Result Grid | Filter

category	quautity
Classic	12102
Supreme	9725
Veggie	9519
Chicken	8948

Determine the distribution of orders by hour of the day

```sql
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Result Grid | Filte

hour	order_count
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

Join relevant tables to find the categroy - wise distribution of pizza

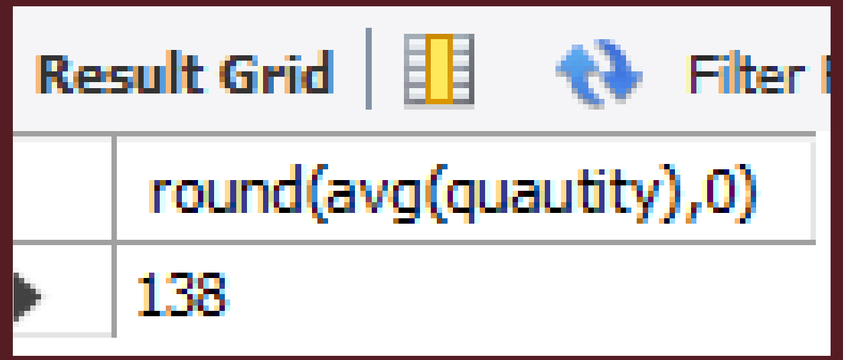
```sql
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

Result Grid | Filter Rows

category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

Group the order by date and calculate the average no. of pizzas ordered per day

```sql
SELECT
    ROUND(AVG(quautity), 0)
FROM
    (SELECT
        orders.order_date, SUM(order_details.quautity) AS quautity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quautity;
```



Determine the top 3 most orderd pizza types based on revenue

```sql
SELECT
    pizza_types.name,
    SUM(order_details.quautity * 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 Barbecue Chicken Pizza	35072.25
The Thai Chicken Pizza	34773.75
The California Chicken Pizza	33247.25

Calculate the percentage contribution of each pizza type to total revenue

```sql
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quautity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quautity * 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 | Filte

	category	revenue
▶	Classic	26.92
	Supreme	25.42
	Chicken	23.84
	Veggie	23.81

Aanalyze the cumulative revenue generated over time

```sql
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date, sum( order_details.quautity * 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;
```

Result Grid | Filter Rows:

order_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
2015-01-10	23990.350000000002
2015-01-11	25862.65

Determine the top 3 most orderd pizza types based on revenue for each pizza categroy

```sql
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.quautity) * 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 Barbecue Chicken Pizza	35072.25
The Thai Chicken Pizza	34773.75
The California Chicken Pizza	33247.25
The Classic Deluxe Pizza	30709.5
The Hawaiian Pizza	25863.25
The Pepperoni Pizza	24725.25
The Spicy Italian Pizza	28476.5
The Italian Supreme Pizza	27266.5
The Sicilian Pizza	24700
The Four Cheese Pizza	26262.150000000467
The Five Cheese Pizza	21885.5