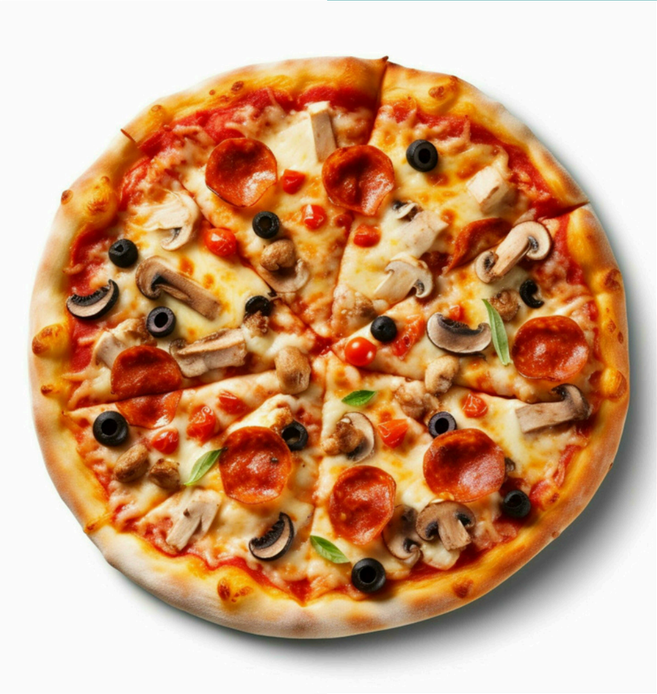
SQL

Pizza Analysis

PIZZA SALES_ANALYSIS REPORT



--Using SQL

by Venkatesh

Introduction

Welcome to my Sales Report Presentation. This project done by Venkatesh Mandhapalli, to analyse pizza sales using SQL to uncover key insights.

DATA SET

File	Columns
Order_details.csv	1.order_details_id 2.order_id 3.pizza_id 4.Quantity
Orders.csv	1.order_id 2.order_date 3.order_time
Pizzas	1.Pizza_id 2.pizza_type_id 3.size 4.price
Pizza_types	1.pizza_type_id 2.name 3.category 4.ingredients

Objective

01 Retrieve Total orders placed

02 Total revenue generated

03 Distribution of orders by hour

04 Category wise distribution of orders

05 Highest priced pizza

06 Most common pizza size ordered

07 Top 5 most ordered pizza types along with quantities

08 Total quantity of each pizza category ordered

09 Average no. of pizzas ordered per day

10 Top 3 most ordered pizza types based on revenue

1)Retrieve the total number of orders placed.

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

Result Grid | Filter Rows:

Total_orders
21350

2)Calculate the total revenue generated from pizza sales.

```sql
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS Total_sales
FROM
    order_details
        INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Result Grid Filter Rows:

	Total_sales
▶	817860.05

3)Determine the distribution of orders by hour of the day.

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

Result Grid | Filter Rows:

HOUR(order_time)	order_count
11	1231
12	2520
13	2455
14	1472
15	1468

4)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

5)Identify the highest-priced pizza.

```sql
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        INNER 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

6)Identify the most common pizza size ordered.

```sql
SELECT
    pizzas.size,
    COUNT(order_details.Order_details_id) AS Order_count
FROM
    pizzas
        INNER 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

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

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

Result Grid | Filter Rows: | Export:

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

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

```sql
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        INNER JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        INNER JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

Result Grid Filter Rows:

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

9)Group the orders by date and calculate the average number of pizzas ordered per day.

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

Result Grid | Filter Rows:

	round(avg(quantity),0)
▶	138

10)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
INNER JOIN pizzas
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
INNER JOIN
order_details ON pizzas.pizza_id = order_details.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

Thank You