INTRODUCTION-

Welcome to the Pizza Sales Analysis project! Here, we delve into Pizza sales data to extract insights and trends vital for optimizing sales strategies, understanding customer behaviour, and improving business operations. Through advanced SQL techniques, we'll analyze data to uncover correlations, identify emerging trends, and provide predictive insights. Our focus areas encompass data analysis, sales strategies, customer behaviour, SQL techniques, optimization, insights, trends, and business operations, aiming to empower stakeholders with actionable intelligence for informed decision-making and sustained growth.

DATASET OVERVIEW-

The dataset used in this project consists of Approximately 22,000 rows of data, representing Pizza sales transactions. Before analysis, the dataset underwent preprocessing to handle missing values and ensure data quality, a crucial step in data analysis workflows. This preprocessing stage ensures the integrity and reliability of our findings, enabling us to draw accurate insights and make informed decisions based on the data.

PIZZAS SQL QUERIES

A. KPs

1. Total Revenue



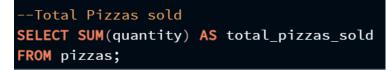


2. Average Order Value

```
--Average Order Value
SELECT SUM(total_price)/ COUNT(DISTINCT order_id)
AS Average_order_value
FROM pizzas;
```

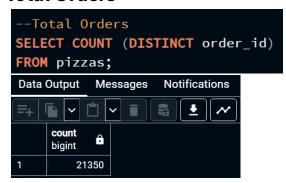


3. Total Pizzas Sold





4. Total Orders



5. Average Pizzas Per Order

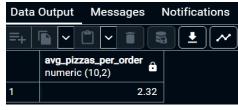
```
--Avg pizzas per order

SELECT CAST(CAST(SUM(quantity) AS DECIMAL(10,2))

/CAST(COUNT (DISTINCT order_id) AS DECIMAL(10,3)) AS DECIMAL (10,2))

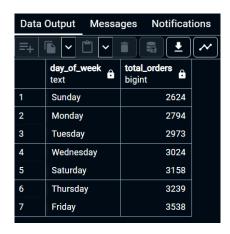
AS Avg_pizzas_per_order

FROM pizzas;
```



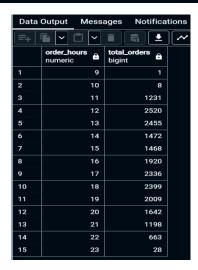
6. Daily Trend

```
SELECT TO_CHAR(order_date, 'Day') AS day_of_week,
COUNT (DISTINCT order_id) AS total_orders
FROM pizzas
GROUP BY TO_CHAR(order_date, 'Day')
ORDER BY COUNT (DISTINCT order_id);
```



7. Hourly Trend

```
SELECT EXTRACT(HOUR FROM order_time) AS Order_hours,
COUNT(DISTINCT order_id) AS total_orders
FROM pizzas
GROUP BY EXTRACT(HOUR FROM order_time)
ORDER BY EXTRACT(HOUR FROM order_time);
```



8. Percentage Of Sales By Pizza Category

```
SELECT pizza_category AS pizza_category,
SUM(total_price) * 100/ (SELECT SUM(total_price) FROM pizzas) AS PCT
FROM pizzas
GROUP BY pizza_category
ORDER BY SUM(total_price) * 100/ (SELECT SUM(total_price) FROM pizzas) DESC;
```



9. Percentage of Sales by Pizza Size

```
SELECT pizza_size AS pizza_size,

CAST(SUM(total_price) * 100/ (SELECT SUM(total_price) FROM pizzas) AS DECIMAL(10,2)) AS PST
FROM pizzas

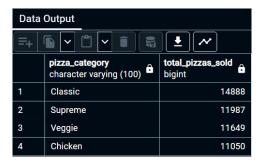
GROUP BY pizza_size

ORDER BY PST DESC;
```



10. Total Pizzas sold by Pizzas Category

```
SELECT pizza_category, SUM(quantity) AS total_pizzas_sold FROM pizzas
GROUP BY pizza_category
ORDER BY total_pizzas_sold DESC;
```



11. Top 5 Best Sellers By Total Pizzas Sold

```
SELECT pizza_name, SUM(quantity) AS total_sales
FROM pizzas
GROUP BY pizza_name
ORDER BY total_sales DESC
LIMIT 5;
```



12. Bottom 5 Worst Sellers By Total Pizzas Sold

```
SELECT pizza_name, SUM(quantity) AS total_sales
FROM pizzas
GROUP BY pizza_name
ORDER BY total_sales ASC
LIMIT 5;
```



CONCLUSION-

In wrapping up this personal project, I've delved deep into pizza sales data, extracting invaluable insights into customer behaviours, market trends, and the intricate dynamics of the pizza industry. With a meticulous analysis under my belt, I've armed myself with actionable intelligence to refine sales strategies and seize emerging opportunities. This journey has not only broadened my understanding of the pizza market but also empowered me to make informed decisions in my pursuit of culinary entrepreneurship.