Introduction

HELLO!

MY NAME IS JANHAVI SOMANI

IN THIS PROJECT I HAVE UTILIZED SQL QUERY TO SOLVE QUESTIONS THAT WERE RELATED TO PIZZA SALES

Executive Summary

This Project Focuses on managing and analyzing data related to PIZZA SALES using Structured Query Language .this project involves creating a database to store information about pizzas, pizza types, order , order details.

- *Database Design:Table for pizzas, pizza types, order , order details. are stored in database.*
- *Querying: SQL Queries are used t/o extract insights such as total sales, total order,order count hour,date .*
- *Analysis: The data is Analysed according to question asked .*

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Retrieve the total number of orders placed.

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

total_orders
21350

Calculate the total revenue generated from pizza sales.

```
3 •   SELECT
4         ROUND(SUM(orders_details.quantity * pizzas.price),
5                 2) AS total_sales
6     FROM
7         orders_details
8             JOIN
9         pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

total_sales
817860.05

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

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

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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);
```

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

Analyze the cumulative revenue generated over date.

```sql
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(orders_details.quantity * pizzas.price) as revenue
from orders_details join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = orders_details.order_id
group by orders.order_date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.850000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55

Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```sql
(select category, name , revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pizza_types.category, pizza_types.name,
sum((orders_details.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a)
```

category	name	revenue	rn
Chicken	The Chicken Pesto Pizza	16701.75	6
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Classic	The Greek Pizza	28454.100000000013	4
Classic	The Italian Capocollo Pizza	25094	5

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