Pizza Sales Analysis

PIZZA IS ONE OF THE FAVORITE FOODS OF ALMOST EVERYONE IN THE WORLD.

26 Octobar,2024

DATA ANALYSIS PORTFOLIO PROJECT

INTRODUCTION

"Hi, my name is Shiva. I completed a project on pizza sales data using SQL. In this project, I leveraged SQL queries to address various questions related to pizza sales, analyzing data to uncover insights into customer preferences, sales trends, and popular pizza types. This project enhanced my ability to work with databases, perform complex data manipulations, and gain actionable insights from raw data."

ABOUT DATABASE

01 orders: Stores details of each order, such as order_id, order_date, customer_id, status, and total_price.

02 pizza_types: Describes each pizza type, with attributes like pizza_type_id, name, description, ingredients, and price.

03 pizza_type_id links order_details with the pizza_types table

04 Retrieving popular pizza types from the order_details table.

05 Calculating revenue by summing up total_price in orders

06 One-to-Many: One order can contain multiple items, represented in order_details.

07 Cascading delete/update rules maintain referential integrity between tables when linked records are modified or deleted.

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
    ROUND(SUM(order_details.quatity * pizzas.price),
            2) AS total_revenue
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    pizzas.size, COUNT(order_details.order_id) as
orders_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id =
order_details.pizza_id
GROUP BY pizzas.size
order by orders_count desc
LIMIT 0 , 5000;ss.
```

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

```
SELECT
pizza_types.name,
SUM(order_details.quatity) AS total_quantity
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 total_quantity DESC
LIMIT 5
```

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

```
SELECT
pizza_types.category, SUM(order_details.quatity) AS
quantity
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 quantity DESC;
```

#DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT
HOUR(pizza_time) as hour,
COUNT(pizza_id) AS order_count
FROM
pizza_orders
GROUP BY HOUR(pizza_time)
order by order_count desc;
```

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT
    category, COUNT(name) as count
FROM
    pizza_types
GROUP BY category;.
```

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

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

THANK YOU

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