

Pizzas Sales Analysis Using Sql

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CONTENTS

1. Data Analysis using SQL queries
(SUM, GROUP BY, JOINs, date
formatting)

Support business decisions using
data insights
Track monthly revenue trends

Steps Performed:

Key fields: pizza_id, order_date,
category, size, price, quantity

Identify best-selling pizza types and
categories

Tables used: orders, order_details,
pizzas, pizza_types

Understand overall sales
performance

Format: CSV (from SQL pizza sales
database)

01

Database and Table Creation



Creating Database

```
CREATE DATABASE PIZZA_HUT;
```

Using Database

```
USE pizza_hut;
```





Creating Orders Table

```
CREATE TABLE ORDERS (
    • ORDER_ID INT NOT NULL PRIMARY KEY,
    • ORDER_DATE DATE NOT NULL,
    • ORDER_TIME TIME NOT NULL );
```

02

Order Statistics Queries

Total Orders Count

```
SELECT COUNT(ORDER_ID) FROM ORDERS;
```

Total Revenue from Pizza Sales

```
SELECT SUM(ORDER_DETAILS.QUANTITY * PIZZAS.PRICE)
FROM ORDER_DETAILS
  • INNER JOIN PIZZAS ON PIZZAS.PIZZA_ID =
ORDER_DETAILS.PIZZA_ID;
```

Highest-Priced Pizza

```
SELECT NAME, PRICE FROM PIZZA_TYPES
  • INNER JOIN PIZZAS ON PIZZA_TYPES.PIZZA_TYPE_ID =
PIZZAS.PIZZA_TYPE_ID
  • ORDER BY PRICE DESC LIMIT 1;
```

Most Common Pizza Size Ordered

```
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  
LIMIT 1;
```

Top 5 Most Ordered Pizza Types

```
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;
```

Total Quantity of Each Pizza Category Ordered

```
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  
    • JOIN ORDER_DETAILS ON ORDER_DETAILS.PIZZA_ID =  
PIZZAS.PIZZA_ID  
    • GROUP BY PIZZA_TYPES.CATEGORY ORDER BY QUANTITY  
DESC;
```

Distribution of Orders by Hour

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

Category-Wise Distribution of Pizzas

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

Average Number of Pizzas Ordered per Day

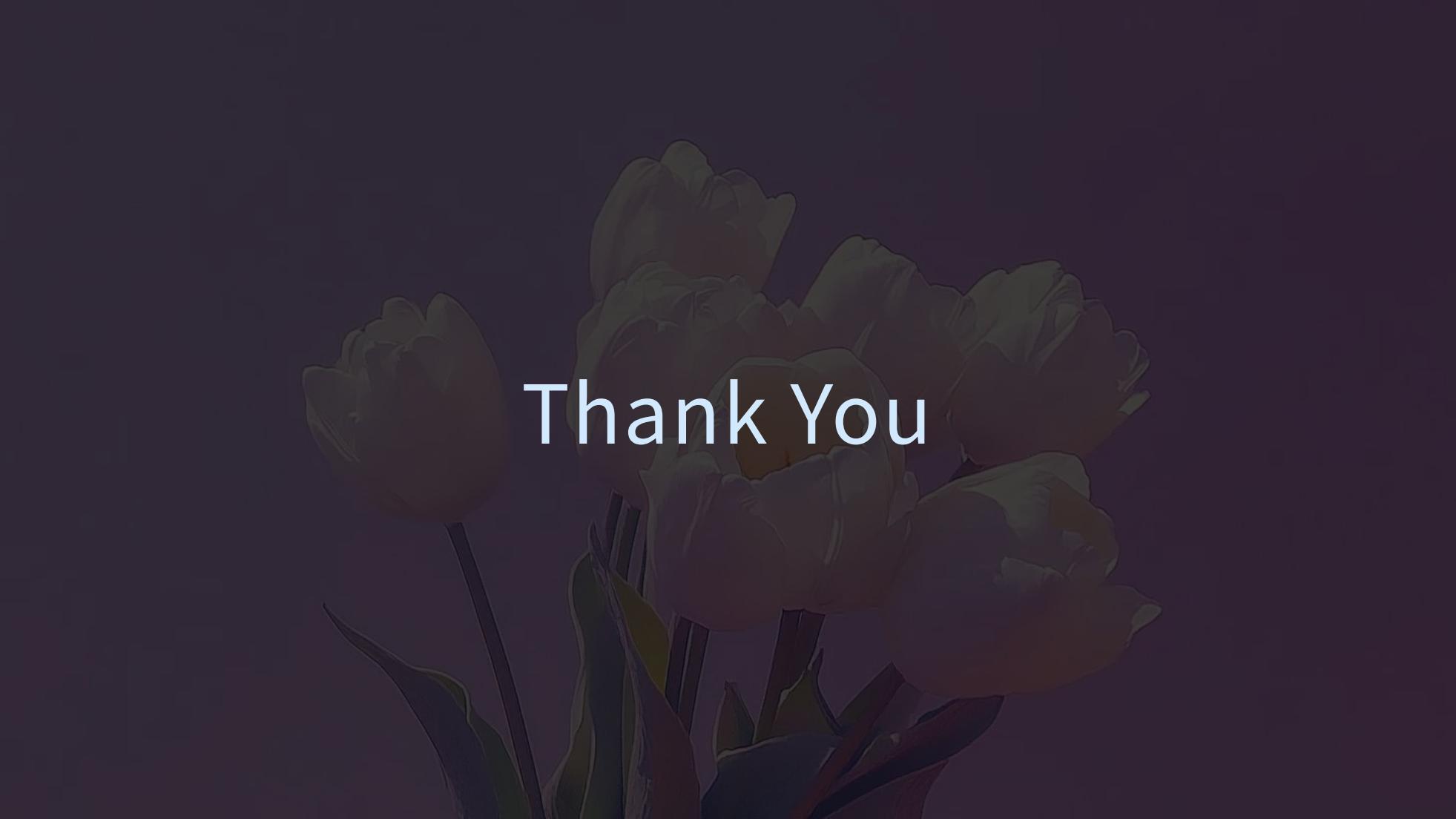
```
SELECT ROUND(AVG(quantity), 0) FROM (
    • SELECT orders.order_date, SUM(order_details.quantity) AS quantity
    • FROM orders
    • INNER JOIN order_details ON orders.order_id =
order_details.order_id
    • GROUP BY orders.order_date) AS order_quantity;
```

Top 3 Most Ordered Pizza Types Based on Revenue

```
SELECT PIZZA_TYPES.NAME, SUM(ORDER_DETAILS.QUANTITY *  
PIZZAS.PRICE) AS REVENUE FROM PIZZAS  
    • INNER JOIN PIZZA_TYPES ON PIZZAS.PIZZA_TYPE_ID =  
      PIZZA_TYPES.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;
```

Top 3 Most Ordered Pizza Types Based on Revenue for Each Category

```
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.QUANTITY) * 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;
```



Thank You