PIZZA SALES PROJECT

Contents

Basic:

1. Retrieve the total number of orders placed.
2. Calculate the total revenue generated from pizza sales.
3. Identify the highest-priced pizza.
4. Identify the most common pizza size ordered.
5. List the top 5 most ordered pizza types along with their quantities.

Intermediate:

1. Join the necessary tables to find the total quantity of each pizza category ordered.
2. Determine the distribution of orders by hour of the day.
3. Group the orders by date and calculate the average number of pizzas ordered per day.
4. Determine the top 3 most ordered pizza types based on revenue.

Advanced:

1. Calculate the percentage contribution of each pizza type to total revenue.
2. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

BASIC

Retrieve the total number of orders placed

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

Result Grid
total_orders
21350

Calculate the total revenue generated from pizza sales
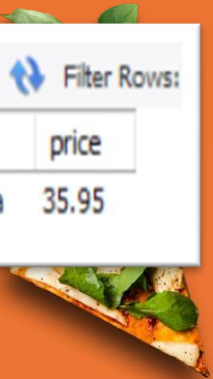
```sql
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_revenue_generated
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid	Filter Rows:
total_revenue_generated	
817860.05	

Identify the highest-priced pizza

```sql
SELECT
    name, price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered

```sql
SELECT
    size, COUNT(order_details_id) AS popular
FROM
    pizzas AS y
        JOIN
    order_details AS x ON y.pizza_id = x.pizza_id
GROUP BY size
ORDER BY popular DESC;
```

size	popular
L	18526
M	15385
S	14137
XL	544
XXL	28

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

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

Result Grid	Filter Rows:	
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

INTERMEDIATE

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

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

category	Quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the top 3 most ordered pizza types based on revenue

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

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Result Grid | Filter Rows:

ADVANCE

Calculate the percentage contribution of each pizza type to total revenue

```sql
SELECT
    category,
    ROUND(SUM(quantity * price) / (SELECT
                    ROUND(SUM(quantity * price), 2) AS total_sales
            FROM
                order_details
                    JOIN
                pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
        2) 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 category
ORDER BY revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Result Grid | Filter

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

```sql
SELECT name, revenue FROM

(SELECT category, name, revenue, RANK() OVER (PARTITION BY category ORDER BY revenue DESC) as rn

FROM

(SELECT category, name,

SUM(quantity*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 category, name) as a) as b

WHERE rn<=3;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5