# Pizza Sales SQL Project:

#### Q1. Retrieve the total number of orders placed.

#### **SQL Query:**

SELECT COUNT(order id) AS total orders FROM orders;

Run this query in your SQL environment to view the output.

# Q2. Calculate the total revenue generated from pizza sales.

#### **SQL Query:**

SELECT ROUND(SUM(orders details.quantity \* pizzas.price), 2) AS total sales FROM orders\_details JOIN pizzas ON pizzas.pizza id = orders details.pizza id;



Run this query in your SQL environment to view the output.

# Q3. Identify the highest-priced pizza.

#### **SQL Query:**

SELECT pizza\_types.name, pizzas.price FROM pizza\_types JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id ORDER BY pizzas.price DESC LIMIT 1;

Run this guery in your SQL environment to view the output.

# Q4. Identify the most common pizza size ordered.

# **SQL Query:**

SELECT pizzas.size, COUNT(orders details.order details id) AS order count FROM pizzas JOIN orders details ON pizzas.pizza id = orders details.pizza id GROUP BY pizzas.size ORDER BY order count DESC;

Run this guery in your SQL environment to view the output.

# Q5. List the top 5 most ordered pizza types along with their quantities.

# **SQL Query:**

SELECT pizza types.name, 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.name ORDER BY quantity DESC LIMIT 5;

Run this query in your SQL environment to view the output.

#### Q6. Join the necessary tables to find the total quantity of each pizza category ordered.

# **SQL Query:**

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;

Run this query in your SQL environment to view the output.

# Q7. Determine the distribution of orders by hour of the day.

#### SQL Query:

SELECT HOUR(order time) AS hour, COUNT(order id) AS order count FROM orders GROUP BY HOUR(order time);

Run this query in your SQL environment to view the output.

Q8. Join relevant tables to find the category-wise distribution of pizzas.

# **SQL Query:**

SELECT category, COUNT(name) FROM pizza\_types GROUP BY category;

Run this query in your SQL environment to view the output.

Q9. Group the orders by date and calculate the average number of pizzas ordered per day.

# **SQL Query:**

SELECT ROUND(AVG(quantity), 2) AS Avg of orders FROM ( SELECT orders.order date, SUM(orders details.quantity) AS quantity FROM orders JOIN orders\_details ON orders.order\_id = orders\_details.order\_id GROUP BY orders.order date ) AS order\_quantity;

Run this query in your SQL environment to view the output.

Q10. Determine the top 3 most ordered pizza types based on revenue.

# **SQL Query:**

SELECT 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.name ORDER BY revenue DESC LIMIT 3:

Run this query in your SQL environment to view the output.

#### Q11. Calculate the percentage contribution of each pizza type to total revenue.

#### **SQL Query:**

```
SELECT pizza types.category,
 ROUND(SUM(orders details.quantity * pizzas.price) /
 (SELECT ROUND(SUM(orders details.guantity * pizzas.price), 2)
 FROM orders details
 JOIN pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100, 2) 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
ORDER BY revenue DESC;
```

Run this query in your SQL environment to view the output.

#### Q12. Analyze the cumulative revenue generated over time.

#### **SQL Query:**

```
SELECT order_date, SUM(revenue) OVER(ORDER BY order_date) AS cum_revenue
 SELECT orders.order_date, SUM(orders_details.quantity * pizzas.price) AS revenue
 FROM orders details
 JOIN pizzas ON pizzas.pizza id = orders details.pizza id
 JOIN orders ON orders.order id = orders details.order id
 GROUP BY orders.order date
) AS sales;
```

Run this guery in your SQL environment to view the output.

# Q13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

# **SQL Query:**

```
SELECT category, 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(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
) AS b
WHERE rn <= 3;
```

Run this query in your SQL environment to view the output.