pizza-sales---SQL Full Portfolio Project

Questions to Solve in this Project

- Basic:
- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
- Intermediate:
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.
- Advanced:
- Calculate the percentage contribution of each pizza type to total revenue.
- Analyse the cumulative revenue generated over time.
 - Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Solved Query

- > List the top 5 most ordered pizza types along with their quantities.
- 1. SELECT
- 2. pizza_types.name, SUM(order_details.quantity) AS quantity
- 3. FROM
- 4. pizza_types
- 5. JOIN
- 6. pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
- 7. JOIN
- 8. order details ON order details.pizza id = pizzas.pizza id
- 9. GROUP BY pizza_types.name
- 10. ORDER BY quantity DESC
- 11. LIMIT 5;
 - Join the necessary tables to find the total quantity of each pizza category ordered.
- 1. SELECT
- 2. pizza_types.category,
- 3. SUM(order details.quantity) AS quantity
- 4. FROM
- 5. pizza_types
- 6. JOIN
- 7. pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
- 8. JOIN
- 9. order details ON order details.pizza id = pizzas.pizza id
- 10. GROUP BY pizza_types.category
- 11. ORDER BY quantity DESC;

> -- Determine the distribution of orders by hour of the day.

- 1. SELECT
- 2. HOUR(order_time) AS hour, COUNT(order_id) AS order_count
- 3. FROM
- 4. orders
- 5. GROUP BY HOUR(order time);
 - > Join relevant tables to find the category-wise distribution of pizzas.
 - 1. SELECT
 - category, COUNT(name)
 - 3. FROM
 - 4. pizza_types
 - 5. GROUP BY category;
 - Group the orders by date and calculate the average number of pizzas ordered per day.
 - 1. SELECT
 - 2. ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
 - 3. FROM
 - 4. (SELECT
 - 5. orders.order_date, SUM(order_details.quantity) AS quantity
 - 6. FROM
 - 7. orders
 - 8. JOIN order_details ON orders.order_id = order_details.order_id
 - 9. GROUP BY orders.order_date) AS order_quantity;
 - Determine the top 3 most ordered pizza types based on revenue.
 - 1. SELECT
 - 2. pizza_types.name,
 - 3. SUM(order_details.quantity * pizzas.price) AS revenue
 - 4. FROM
 - 5. pizza_types
 - 6. JOIN
 - 7. pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
 - 8. JOIN
 - 9. order_details ON order_details.pizza_id = pizzas.pizza_id
 - 10. GROUP BY pizza_types.name
 - 11. ORDER BY revenue DESC
 - 12. LIMIT 3;

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

- 1. SELECT
- 2. pizza types.category,
- 3. round(SUM(order details.quantity * pizzas.price) / (SELECT
- 4. ROUND(SUM(order details.quantity * pizzas.price),
- 5. 2) AS total sales
- 6. FROM
- 7. order details
- 8. join
- 9. pizzas on pizzas.pizza_id = order_details.pizza_id) *100,2) AS revenue
- 10. from pizza types JOIN pizzas
- 11. ON pizza_types.pizza_type_id = pizzas.pizza_type_id
- 12. JOIN
- 13. order details ON order details.pizza id = pizzas.pizza id
- 14. GROUP BY pizza types.category
- 15. ORDER BY revenue DESC;

Analyze the cumulative revenue generated over time.

- 1. select order_date,
- 2. sum(revenue) over (order by order date) as cum revenue
- 3. from
- 4. (select orders.order_date,
- 5. sum(order_details.quantity * pizzas.price) as revenue
- 6. from order_details join pizzas
- 7. on order_details.pizza_id = pizzas.pizza_id
- 8. join orders
- 9. on orders.order id = order details.order id
- 10. group by orders.order_date) as Sales;

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

- 1. select name, revenue from
- 2. (select category,name,revenue,
- rank() over(partition by category order by revenue desc) as rn
- 4. from
- 5. (select pizza_types.category,pizza_types.name,
- 6. Sum((order details.quantity) * pizzas.price) as revenue
- 7. from pizza_types join pizzas
- 8. on pizza_types.pizza_type_id = pizzas.pizza_type_id
- 9. join order_details
- 10. on order details.pizza id = pizzas.pizza id
- 11. group by pizza_types.category,pizza_types.name) as a) as b
- 12. where rn <= 3;