Delicious PIZZA

MySQL Project

save 50%

I have successfully completed my first MySQL project, encompassing three levels of queries: basic, intermediate, and advanced. This project allowed me to enhance my database management skills and gain hands-on experience in writing efficient and optimized SQL queries for various data-related tasks.

Basic Level Questions:

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

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

Q3. Identify the highest-priced pizza.

Q4. Identify the most common pizza size ordered.

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

Solution code for Q5

```
SELECT pizza_types.name,
sum(order_details.quantity) as quantity
FROM pizza_types
JOIN pizzas
ON pizza_types.pizza_type_id = pizzas.pizza_type
JOIN order_details
ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity desc limit 5;
```

name	quantity
The Barbecue Chicken Pizza	1929
The Pepperoni Pizza	1904
The Classic Deluxe Pizza	1900
The Hawaiian Pizza	1847
The California Chicken Pizza	1825

Intermediate Level Questions:

Q1. **Join the necessary tables to find the total quantity of each pizza category ordered.**
Q2. **Determine the distribution of orders by hour of the day.**
Q3. **Join relevant tables to find the category-wise distribution of pizzas.**
Q4. **Group the orders by date and calculate the average number of pizzas ordered per day.**
Q5. **Determine the top 3 most ordered pizza types based on revenue.**

Solution of Q5

```
SELECT pizza_types.name,
sum(order_details.quantity*pizzas.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 pizza_types.name ORDER BY revenue DESC LIMIT 3;
```

Result Grid | Filter Rows:

name	revenue
The Barbecue Chicken Pizza	33922.75
The Thai Chicken Pizza	33293
The California Chicken Pizza	31912.75

Advanced Level Queries:

Q1. Calculate the percentage contribution of each pizza type to total revenue.
Q2. Analyze the cumulative revenue generated over time.
Q3. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Solution Code to Q3

```
30 •  SELECT name, revenue FROM
31    (SELECT category, name, revenue,
32    rank() over(partition by category order by revenue desc) as ranking
33    FROM
34    (SELECT pizza_types.category, pizza_types.name,
35    sum(order_details.quantity) * pizzas.price as revenue
36    FROM pizza_types JOIN pizzas
37    ON pizza_types.pizza_type_id = pizzas.pizza_type_id
38    JOIN order_details
39    ON order_details.pizza_id = pizzas.pizza_id
40    GROUP BY pizza_types.category, pizza_types.name, pizzas.price) as a) as b
41    WHERE ranking <= 3;
42
```

Result Grid | Filter Rows:

name	revenue
The Thai Chicken Pizza	22285.5
The Southwest Chicken Pizza	16309.5
The Barbecue Chicken Pizza	16268
The Big Meat Pizza	17628
The Classic Deluxe Pizza	14560
The Italian Capocollo Pizza	11992.5
The Spicy Italian Pizza	18384.5
The Italian Supreme Pizza	12457.5
The Italian Supreme Pizza	12180.25
The Five Cheese Pizza	21034.5