SQL PROJECT ON PIZZA SALES

HELLO EVERYONE!!
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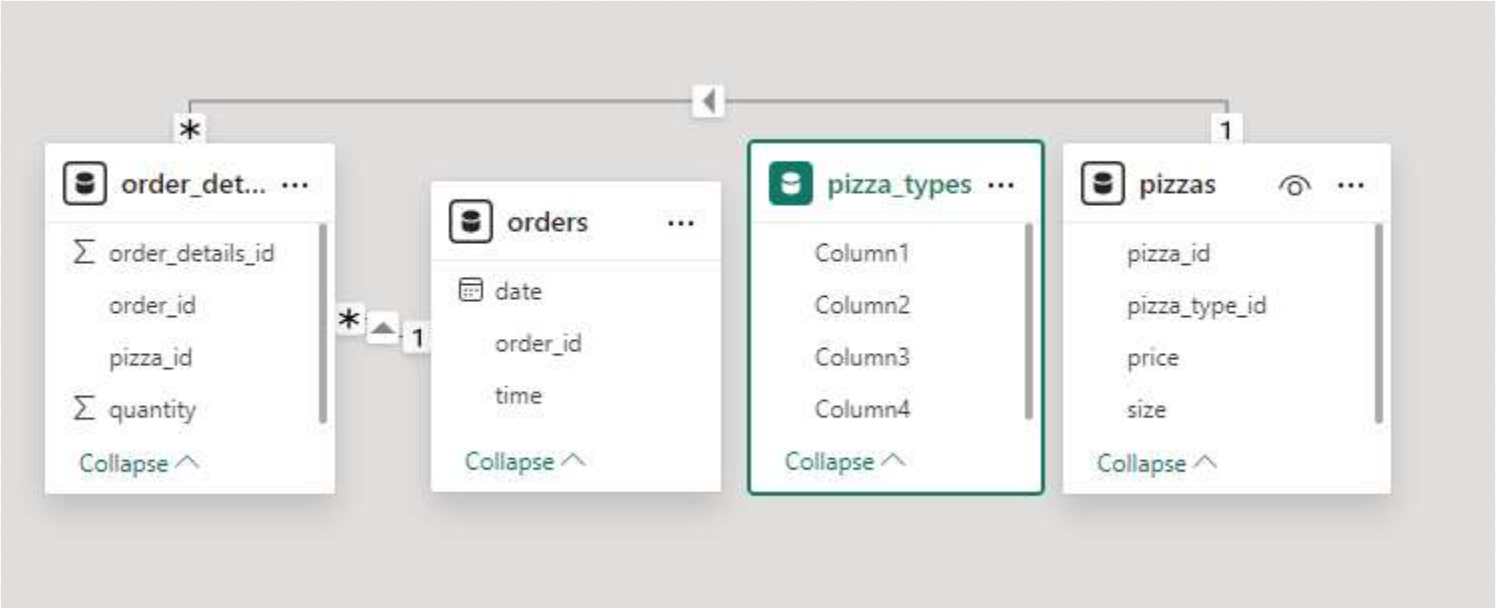
- Here I will be presenting a PowerPoint on recent pizza sales using sql commands such as Order by, Limit Clause,Handling Joins,Aggregate functions,Primary key,Foreign key, Common table expressions, Dense_rank,Group by.

Model View of Pizza Sales



List of Questions

- Retrieve the total number of orders placed.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
- 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.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retreive the total number of orders placed.

```sql
select count(order_id) as total_orders from orders;
```

Identify the most common pizza size ordered.

```
3 • select pizzas.size, count(order_details.order_details_id) as order_count
4   from pizzas join order_details
5   on pizzas.pizza_id =order_details.pizza_id
6   group by pizzas.size order by order_count desc ;
```

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

```
3 •  select pizza_types.names,
4    sum(order_details.quantity) as quantity
5    from pizza_types join pizzas
6    on pizza_types.pizza_type_id = pizzas.pizza_type_id
7    join order_details
8    on order_details.pizza_id = pizzas.pizza_id
9    group by pizza_types.name order by quantity desc limit 5;
```

Determine the distribution of orders by hour of the day.

```
3 • select hour(order_time), count(order_id) as order_count from orders
4   group by hour(order_time);
```

Join relevant tables to find the category wise distribution of pizzas

```
3 • select category , count(name) from pizza_types
4   group by category;
```

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

```
4 • select avg(quantity,0) from
5   (select orders.order_date, sum(order_details.quantity) as quantity
6   from orders join order_details
7   on orders.order_id = order_details.order_id
8   group by orders.order_date) as order_quantity;
```

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

```
3 •  select pizza_types.name,
4    sum(order_details.quantity * pizzas.price) as revenue
5    from pizza_types join pizzas
6    on pizzas.pizza_type_id = pizza_types.pizza_type_id
7    join order_details
8    on order_details.pizza_id = pizzas.pizza_id
9    group by pizza_types.name order by revenue desc limit 3;
```

Determine the top 3 most ordered pizza types based on revenue for each pizza 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_type.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;
```

THANKS FOR YOUR TIME!!