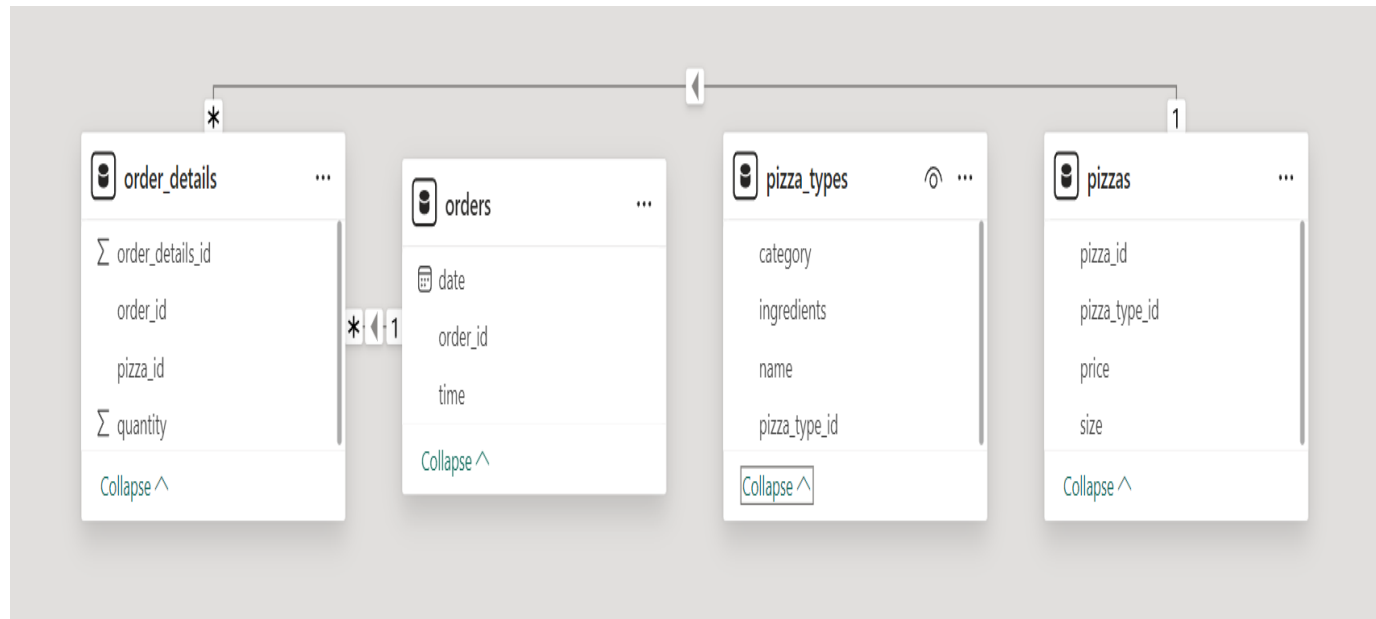


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PIZZA SALES SQL QUERIES



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Question Level : Basic, Intermediate, Advanced

-- Basic:

-- 1) Retrieve the total number of orders placed.

SELECT

 COUNT(order_id) AS total_orders

FROM

 orders;

-- 2) Calculate the total revenue generated from pizza sales.

SELECT

 ROUND(SUM(order_details.quantity * pizzas.price),
 2) AS total_sales

FROM

 order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id;

-- 3) Identify the highest-priced pizza.

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;

-- 4) Identify the most common pizza size ordered.

SELECT

pizzas.size,

COUNT(order_details.order_details_id) AS order_count

FROM

pizzas

JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC;

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

SELECT

pizza_types.name, sum(order_details.quantity) as quantity

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.name
ORDER BY quantity DESC
LIMIT 5;
```

-- Intermediate:

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

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
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
ORDER BY quantity DESC;
```

-- 7) Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
```

```
GROUP BY HOUR(order_time);
```

```
-- 8) Join relevant tables to find the category-wise distribution of pizzas.
```

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

```
-- 9) Group the orders by date and calculate the average number of pizzas ordered per day.
```

```
SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

```
-- 10) Determine the top 3 most ordered pizza types based on revenue.
```

```
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;
```

-- Advanced:

-- 11) Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
pizza_types.category,
ROUND((SUM(order_details.quantity * pizzas.price) / (SELECT
    ROUND(SUM(order_details.quantity * pizzas.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 pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
        order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

-- 12) Analyze the cumulative revenue generated over time.

```

select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(order_details.quantity* pizzas.price) as revenue
from order_details join pizzas
on order_details.pizza_id= pizzas.pizza_id
join orders
on orders.order_id= order_details.order_id
group by orders.order_date) as sale;

```

-- 13) 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_types.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;

```