

Query For Pizza Sales Report

Q Retrieve the total number order placed

Ans:

```
select count(order_id) from orders;
```

Q Retrieve a total revenue genrated from pizza sales

Ans:

```
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;
```

Q Identify the highest-priced pizza.

Ans:

```
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;
```

Q Identify the most common pizza size ordered.

Ans:

```
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;
```

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

Ans:

```
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;
```

Q Join the necessary tables to find the total quantit

Ans:

```
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;
```

Q Determine the distribution of orders by hour of the day.

Ans:

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS
order_id
FROM
    orders
GROUP BY HOUR(order_time);
```

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

Ans:

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

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

Ans:

```
SELECT
    ROUND(AVG(quantity), 0) as avd_pizza_order_perDay
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;
```

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

Ans:

```
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) AS revenue
FROM
    pizzas
    JOIN
        pizza_types 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;
```

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

Ans:

```
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * order_details.quantity) /
(SELECT
        SUM(order_details.quantity * pizzas.price)
    FROM
        order_details
    JOIN
        pizzas ON order_details.pizza_id =
pizzas.pizza_id) * 100,
        2) 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
ORDER BY revenue DESC;
```

Q Analyze the cumulative revenue generated over time.

Ans:

```
select order_date,  
sum(revenue) over (order by order_date) as  
cm_revenue  
from  
(select orders.order_date,  
round(sum(order_details.quantity * pizzas.price),2) 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 sales;
```


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

Ans:

```
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;
```