# SALES PRESENTATION BY SQL QUERIES

1.Retrieve the total number of orders placed.

```
SELECT
     COUNT(order_id) AS total_order
FROM
     orders;
```

### 2.Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(o.quantity * p.price), 2) AS total_revenue
FROM
    order_detail o
        JOIN
    pizzas p ON o.pizza_id = p.pizza_id;
```

#### 3.Identify the highest-priced pizza.

```
SELECT
    pt.name, p.price
FROM
    pizzas p
         JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

#### 4. Identify the most common pizza size ordered.

```
SELECT
    p.size, COUNT(o.order_detail) AS order_count
FROM
    order_detail o
        JOIN
    pizzas p ON o.pizza_id = p.pizza_id
GROUP BY p.size
ORDER BY order_count DESC
LIMIT 1;
```

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



```
SELECT
    pt.name, SUM(o.quantity) AS qty
FROM
    order_detail o
        JOIN
    pizzas p ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.name
ORDER BY qty DESC
LIMIT 5;
```

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

```
SELECT
    pt.category, SUM(o.quantity) AS qty
FROM
    order_detail o
        JOIN
    pizzas p ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.category
ORDER BY qty DESC;
```

#### 7.Determine the distribution of orders by hour of the day.

```
SELECT
   HOUR(order_time) AS hours, COUNT(order_id) AS count
FROM
   orders
GROUP BY hours
ORDER BY count DESC;
```

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

```
SELECT
    AVG(count) AS avg_per_day_count
FROM
    (SELECT
        order date, SUM(od.quantity) AS count
    FROM
        order detail od
    JOIN orders o ON od.order_id = o.order_id
    GROUP BY order_date) day_count;
```

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

```
SELECT
    pt.name, SUM(p.price * od.quantity) AS revenue
FROM
    order_detail od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
        JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY revenue DESC
LIMIT 3;
```

10. Calculate the percentage contribution of each pizza category to total revenue.

```
SELECT pt.category, round(SUM(p.price * od.quantity),2) AS revenue,

ROUND(SUM(p.price * od.quantity)*100 / SUM(SUM(p.price * od.quantity)) OVER (), 2) AS rev_percent

FROM order_detail od

JOIN pizzas p

ON od.pizza_id = p.pizza_id

JOIN pizza_types pt

ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.category

ORDER BY revenue DESC;
```

11. Analyze the cumulative revenue generated over time.

```
sum(revenue) over(order by order_date) as cum_revenue

from (SELECT o.order_date,sum(p.price * od.quantity) as revenue

FROM order_detail od

JOIN pizzas p

ON od.pizza_id = p.pizza_id

JOIN orders o

ON o.order_id = od.order_id

group by order_date) as sales;
```

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

## 

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