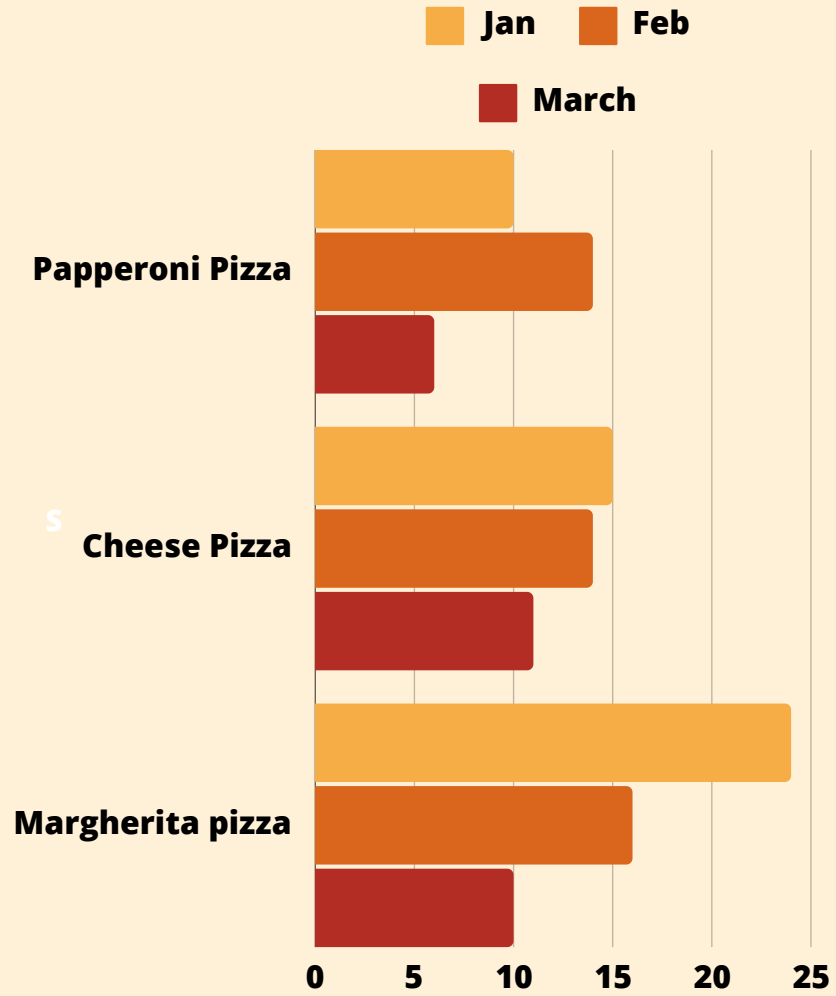
PIZZA SALES

# ANALYSIS

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-- RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```sql
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

-- 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
```

-- 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;
```

-- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
pizzas.size, COUNT(order_details.order_details_id)
     FROM
pizzas
    JOIN
order_details ON pizzas.pizza_id = order_details.pizza_id
  GROUP BY pizzas.size;
```

# -- 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;
```

## -- JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

-- 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);
```

-- JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

## -- 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;
```

# -- CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
    SELECT
pizza_types.category,
(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 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;
```

-- 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 sales;
```