



# ***PIZZA SALE***

SQL Queries

# Q1: Get the total count of all orders.

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

	total_orders
▶	21350

# Q2: 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;
```

	total_sales
▶	817860.05



## Q3: 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;
```

	name	price
▶	The Greek Pizza	35.95

## Q4: 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;
```

	size	order_count
►	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

# Q5: 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;
```

	name	quantity
►	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

**Q6: 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;
```

	category	quantity
►	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

# Q7: 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);
```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1

**Q8: Join the relevant tables to find the category-wise distribution of pizzas.**

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

	category	pizza_count
►	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



Q9: Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
    ROUND(AVG(quantity), 0) AS quantity
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;
```

	quantity
	138

# Q10: 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;
```

	name	revenue
►	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

# Q11: Calculate the percentage contribution of each pizza category to the 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 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;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

# Q12: 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;
```

	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.750000000001
	2015-01-20	45763.650000000001

Result 9 ×

Q13: 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;
```

	name	revenue
►	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.700000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5