

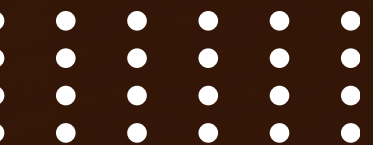
Where Every Slice is a Taste of Perfection

SQL PROJECT ON PIZZA SALES



**ORDER
NOW**

Start Your Slide





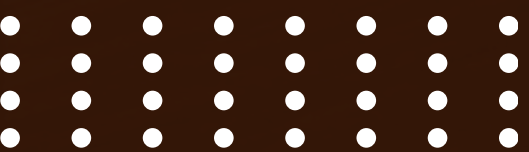
I, Aman Kumar Singh, from Vellore Institute Of technology have worked on the SQL For Data Analysis – Full Portfolio Project with Practical, where I transformed raw pizza sales data into meaningful business insights using advanced SQL queries, and window functions.

I am passionate about solving business problems through data analytics, SQL, and visualization. With hands-on experience in real datasets and practical projects, I focus on delivering insights that improve decision-making, performance, and efficiency. This project demonstrates my ability to take raw data, process it using SQL, and convert it into meaningful, actionable insights.

Retrieve the total number of orders placed.

```
SELECT COUNT(Order_id) as total_orders  
FROM orders;
```

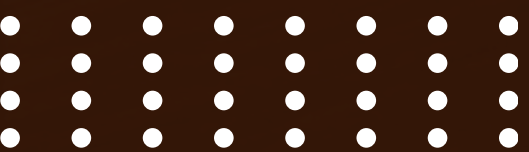
total_orders
2157



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
```

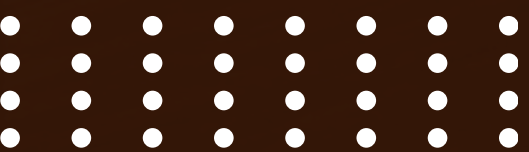
	total_sales
▶	817860.05



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;
```

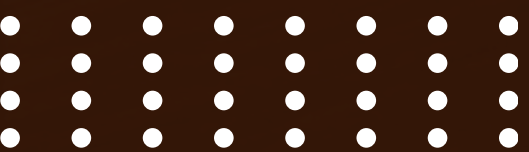
	name	price
▶	The Greek Pizza	35.95



Identify the most common pizza size orderd.

```
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



Top 5 most ordered pizza types with their quantities.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS total_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 total_quantity DESC
LIMIT 5;
```

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

total quantity of each pizza category orderd.

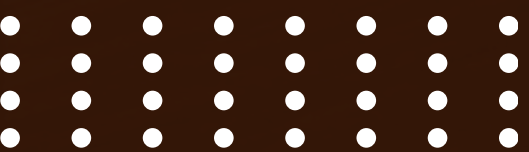
```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM pizza_types
JOIN pizzas
    ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details
    ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

	category	quantity
►	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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
	0	2157



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

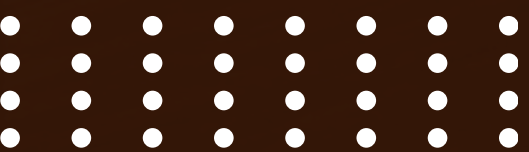
```
SELECT
    pizza_types.category,
    COUNT(pizza_types.name) AS pizza_count
FROM pizza_types
GROUP BY pizza_types.category
ORDER BY pizza_count DESC;
```

	category	pizza_count
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

**Group the orders by date and
calculate the average
number of pizzas orderd per day.**

```
select round(avg(quantity),0)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;
```

	round(avg(quantity),0)
▶	14



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

Percentage contribution of each pizza category to total revenue.

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price), 2) AS revenue,
    ROUND(
        (SUM(order_details.quantity * pizzas.price) /
         (SELECT SUM(order_details.quantity * pizzas.price)
          FROM order_details
          JOIN pizzas
            ON pizzas.pizza_id = order_details.pizza_id)) * 100, 2
    ) AS percentage_contribution
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	percentage_contribution
▶	Classic	220053.1	26.91
	Supreme	208197	25.46
	Chicken	195919.5	23.96
	Veggie	193690.45	23.68

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 BY order_date;
```

order_date	cum_revenue
2015-01-01	235
2015-01-02	694.5
2015-01-03	759.25
2015-01-04	1009.75
2015-01-05	1230.25
2015-01-06	1581.15
2015-01-07	2100.8
2015-01-08	2375.8
2015-01-09	2628.05
2015-01-10	2739.3

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	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5



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