

# SQL PROJECT ON PIZZA SALES







SQL PROJECT

# WELCOME TO MY SQL PROJECT


Hello, My name is syed md sheeraz in this project i utilize SQL query to calculate the sales and solve different question related to the sales of the pizzas of a restaurant







# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



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

total_revenue
---------------

817860.05
-----------







# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT
```

```
    COUNT(order_id) AS total_orders
```

```
FROM
```

```
orders;
```

Result Grid

	total_orders
▶	21350







# IDENTIFY THE HIGHEST-PRICED PIZZA.

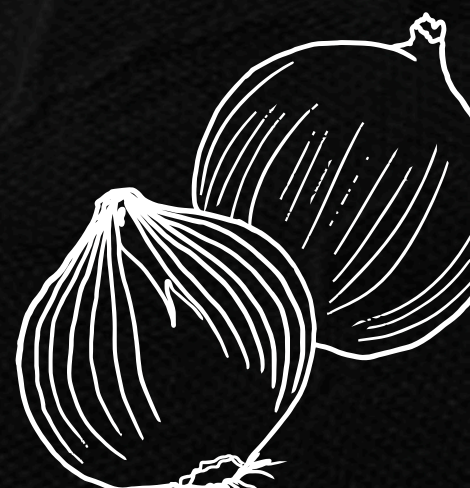
```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
WHERE
    pizzas.price = (SELECT
        MAX(price)
        FROM
            pizzas);
```

Result Grid



Filter Rows:

	name	price
▶	The Greek Pizza	35.95







# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

SELECT

pizzas.size, COUNT(orders\_details.order\_details\_id) AS total

FROM

pizzas

JOIN

orders\_details ON pizzas.pizza\_id = orders\_details.pizza\_id

GROUP BY pizzas.size

ORDER BY total DESC

LIMIT 1

Result Grid			
	size	total	
▶	L	18526	







# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity) AS total_quantity
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
        orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY 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







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

```
select category,count(*) as total from pizza_types  
group by category order by total desc
```

category	total
Supreme	9
Veggie	9
Classic	8
Chicken	6



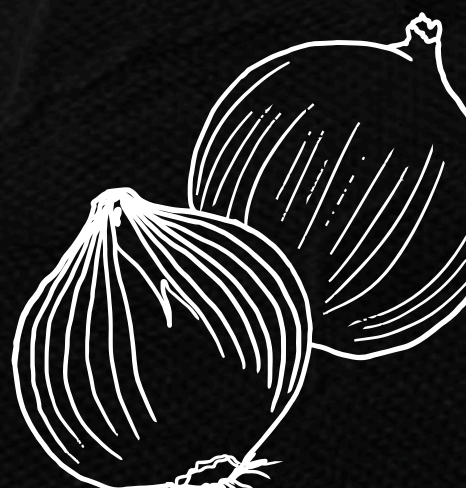




# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

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

	hours	COUNT(order_id)
▶	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



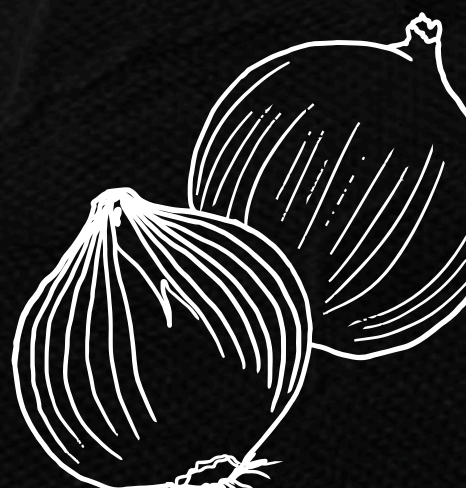




# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
select pizza_types.name,sum(pizzas.price*orders_details.quantity) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on pizzas.pizza_id=orders_details.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



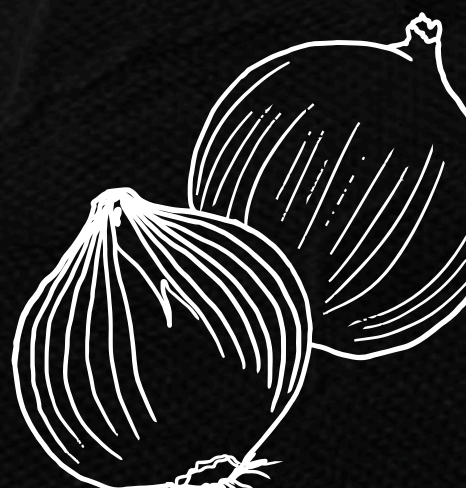





# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA ORDERED.

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS total
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY name
ORDER BY total DESC
```

name	total
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371
The California Chicken Pizza	2370
The Sicilian Pizza	1938
The Spicy Italian Pizza	1924
The Southwest Chicken Pizza	1917
The Big Meat Pizza	1914







# GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
SELECT
    ROUND(AVG(total_orders))
FROM
    (SELECT
        orders.order_date AS Date,
        SUM(orders_details.quantity) AS total_orders
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY order_date) AS quantities
```

ROUND(AVG(total_orders))
138



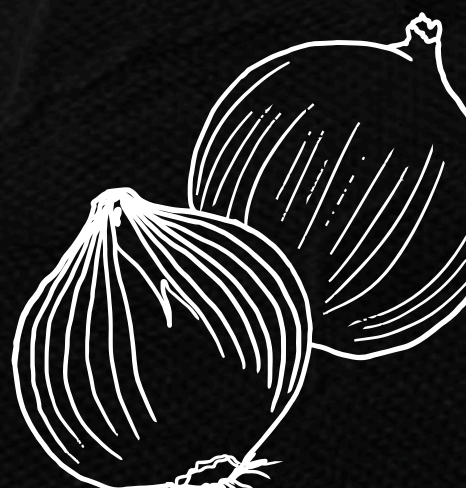




# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
select pizza_types.category,(sum(pizzas.price*orders_details.quantity) / ( SELECT  
    ROUND(SUM(orders_details.quantity * pizzas.price),2)  
FROM orders_details JOIN pizzas ON orders_details.pizza_id = pizzas.pizza_id)) * 100  
as revenue  
from pizza_types join pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id  
join orders_details  
on pizzas.pizza_id=orders_details.pizza_id  
group by pizza_types.category  
order by revenue desc
```

category	revenue
Classic	26.90596025566967
Supreme	25.45631126009862
Chicken	23.955137556847287
Veggie	23.682590927384577







# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date, sum(revenue) over (order by order_date) cum_revenue
from
(select orders.order_date, sum(orders_details.quantity * pizzas.price) as revenue
from orders_details join pizzas
on orders_details.pizza_id=pizzas.pizza_id
join orders
on orders.order_id=orders_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







DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select category,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(orders_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id=pizzas.pizza_id
group by pizza_types.category,pizza_types.name) as a) as b
where rn<=3;
```

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.7000000
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5





# THANK YOU!

