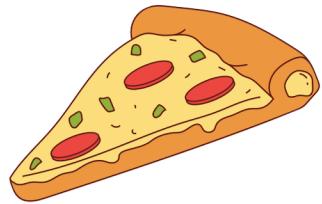
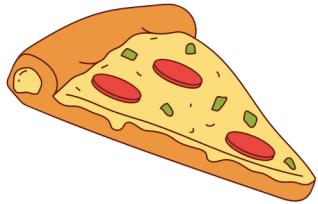


SQL Project on Pizza Sales

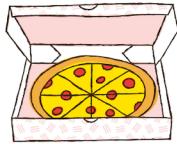


Hello !

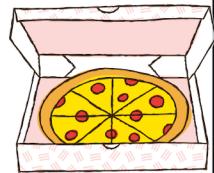


Hello! My name is Shivansh Singh,
In this project i have utilise sql query to solve questions that
were related to pizza sales

Retrieve the total number of orders placed



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



Result Grid	
	total_orders
▶	21350

Calculate the total revenue generated from pizza.

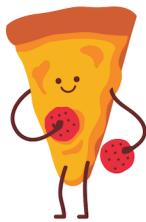


```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_sales
FROM
    order_details
    JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total_sales
▶	817860.05

Identify the highest-priced pizza.

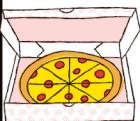
```
' SELECT  
    pizza_types.name, pizzas.price  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type  
ORDER BY pizzas.price DESC  
LIMIT 1|
```



Result Grid | Filter Row

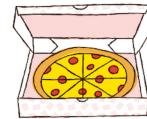
	name	price
▶	The Greek Pizza	35.95

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

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;
```

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

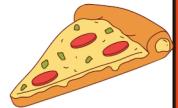
List the top 5 most ordered pizza types along with their quantities.



```
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
;
```

Result Grid		
	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

Join the necessary tables to find the totale 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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC
;
```

Result Grid	
category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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



SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;

Result Grid				Filter Rows:
	category	COUNT(name)		
▶	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		

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



```
SELECT  
    AVG(quantity) as avg_pizza_ordered_per_day  
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;
```

Result Grid	
	avg_pizza_ordered_per_day
▶	138.4749

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



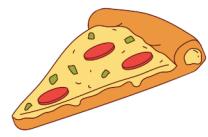
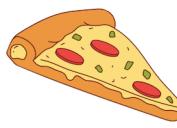
```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue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



Result Grid		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

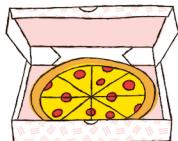
Calculate the percentage contribution of each pizza type to total revenue.

```
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;
```



Result Grid		
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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  
;
```

Result Grid		Filter Rows:
	order_date	cum_revenue
▶	2015-01-01	2713.850000000000
	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	23990.35000000000
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.30000000000
	2015-01-14	32358.70000000000
	2015-01-15	34343.50000000000
	2015-01-16	36937.65000000000
	2015-01-17	39001.75000000000
	2015-01-18	40978.60000000000
	2015-01-19	43365.75000000000
	2015-01-20	45763.65000000000

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;
```



Result Grid		
	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