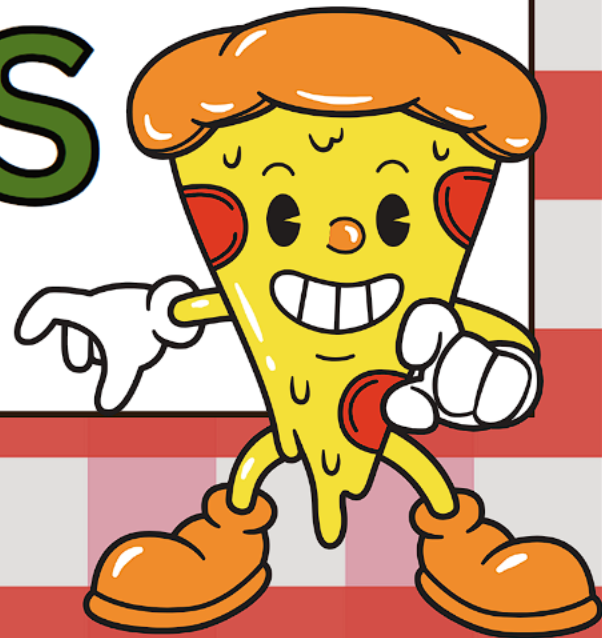
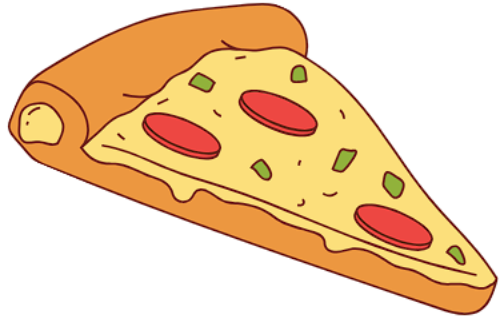


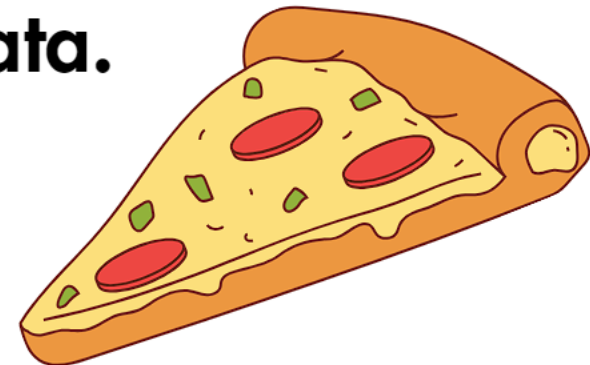
SQL PROJECT ON PIZZA SALES



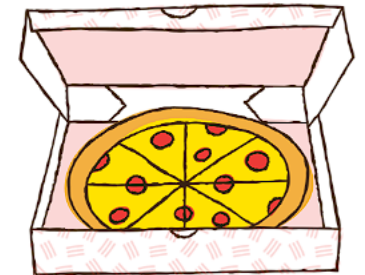
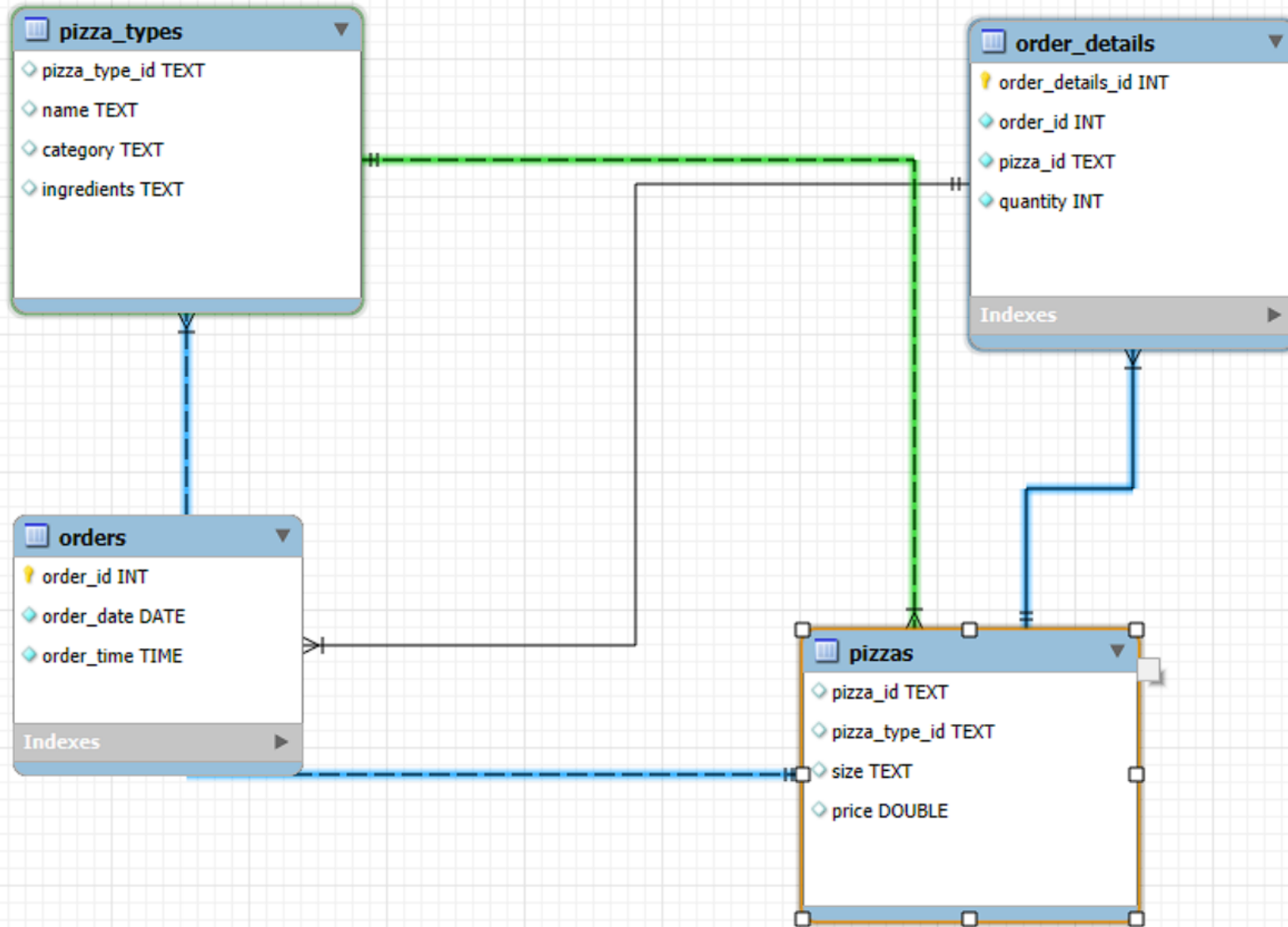
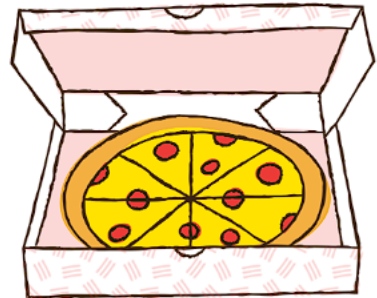
Description



Hey!!! I am Yeshu and I have build this project with the help of SQL . I have used some of the Basic and Advance functions like Window function and Subqueries. And deal with more than 50,000+ data.

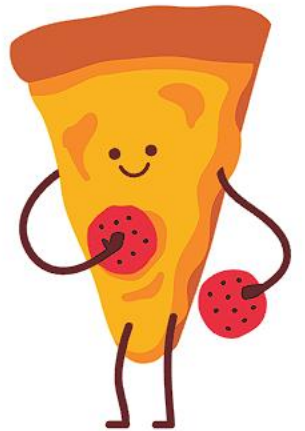
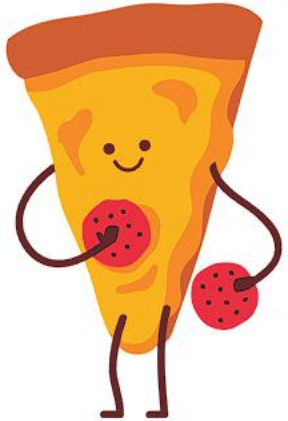


Schema (TABLE)



1. Retrieve the total number of orders placed.

```
2 • SELECT  
3     COUNT(*) AS total_orders  
4 FROM  
5 orders;
```




OUTPUT

	total_orders
▶	21350

2. Calculate the total revenue generated from pizza sales.

SELECT

 `ROUND(SUM(order_details.quantity * pizzas.price),
2) AS total_sales`

FROM

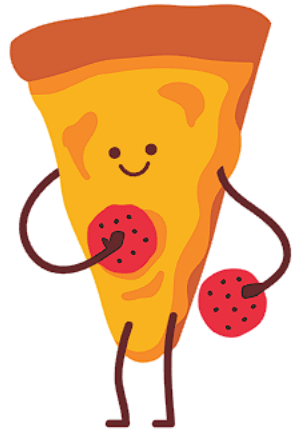
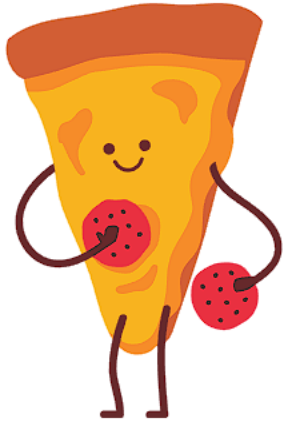
`order_details`

JOIN

`pizzas ON pizzas.pizza_id = order_details.pizza_id`

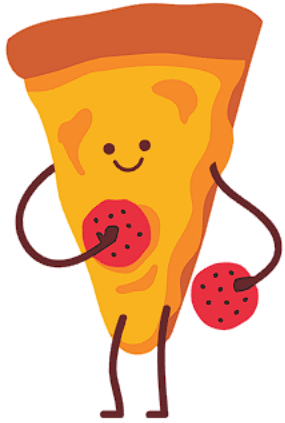
OUTPUT

	<code>total_sales</code>
▶	<code>817860.05</code>



3. 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;
```

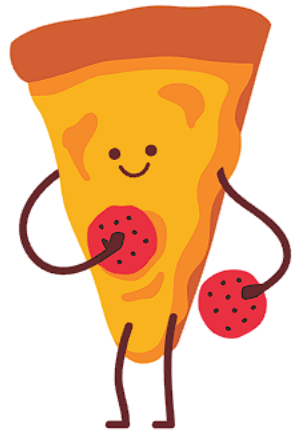
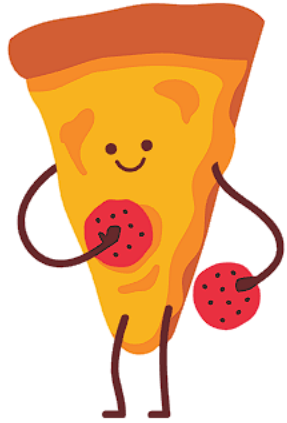


OUTPUT

	name	price
▶	The Greek Pizza	35.95

4. Identify the most common pizza size ordered.

```
SELECT
    pizzas.size, COUNT(order_details.quantity) 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
LIMIT 1;
```

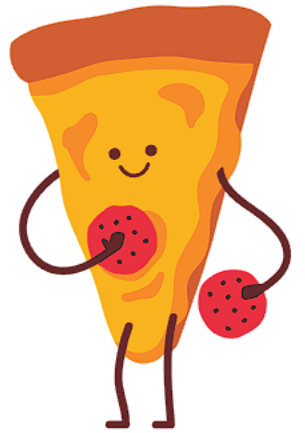
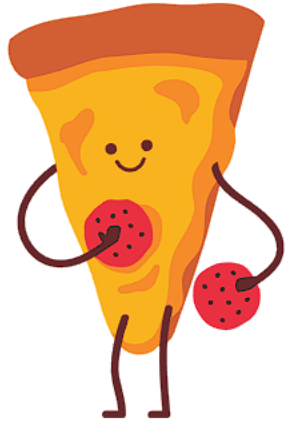


OUTPUT

	size	order_count
▶	L	18526

5. 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;
```



OUTPUT

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

6. 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 category
ORDER BY quantity DESC;
```



OUTPUT

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

7. 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);
```



OUTPUT

	hour	order_count
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1



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

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

OUTPUT

	category	COUNT(name)
►	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

```
SELECT  
    ROUND(avg(quantity), 0) as avg_no_pizzas  
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;
```



OUTPUT

	avg_no_pizzas
▶	138

10. 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;
```



OUTPUT

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

11. 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 pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
        order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC
```



OUTPUT

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

12. 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;
```

OUTPUT

order_date	cum_revenue
2015-01-01	2713.8500000000000004
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	23990.350000000000002
2015-01-11	25862.65



13. 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
;
```



OUTPUT

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