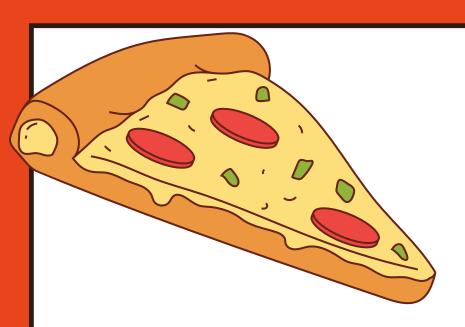
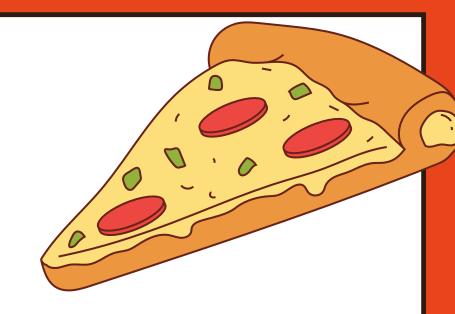
SQL PROJECT ON PIZZA SALES



HELLO



I am Tamanna Afrin, a student with experience in data analysis and SQL.

This project's primary objective was to examine pizza sales data in order to identify important trends and insights and to assist the company in better understanding sales performance, client preferences, and possible areas for growth.

SCHEMAS

Table: orders

Columns:

Order_id in Order_date date Order_time ti

int PK date time Table: order_details

Columns:

Order_id int
Pizza_id text
Quantity int

Table: pizza_types

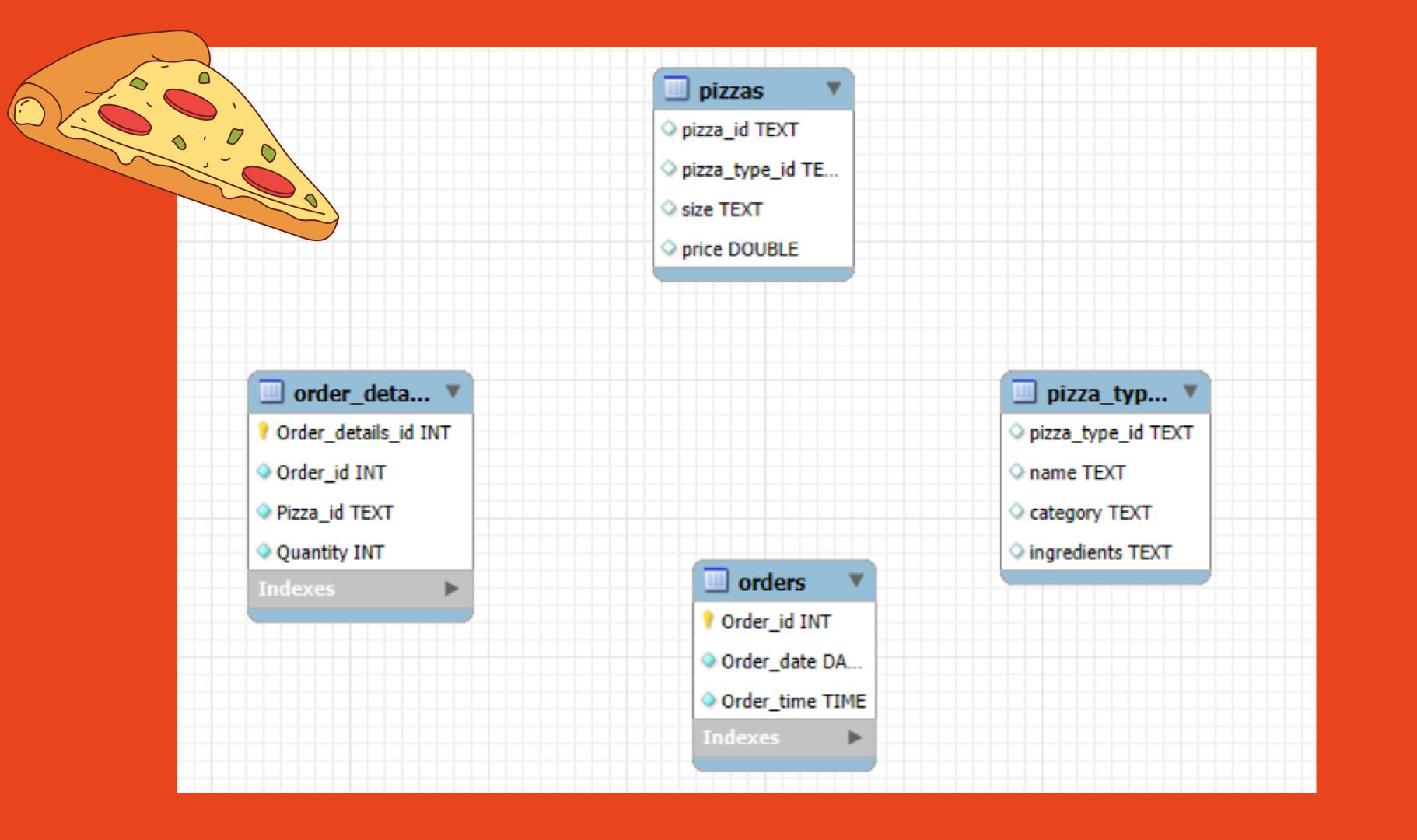
Columns:

pizza_type_id text name text category text ingredients text

Table: pizzas

Columns:

pizza_id text
pizza_type_id text
size text
price double

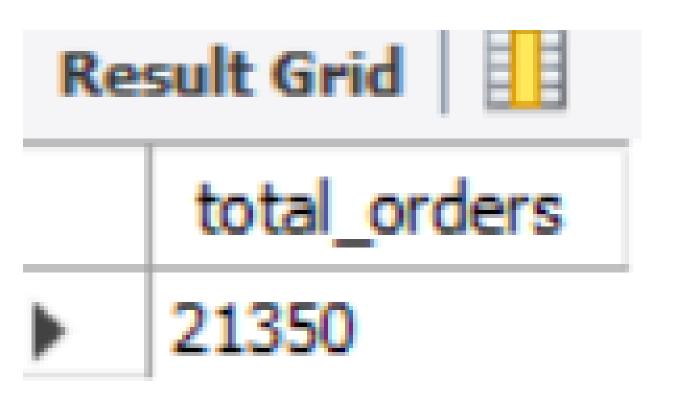




Retrieve the total number of orders placed.

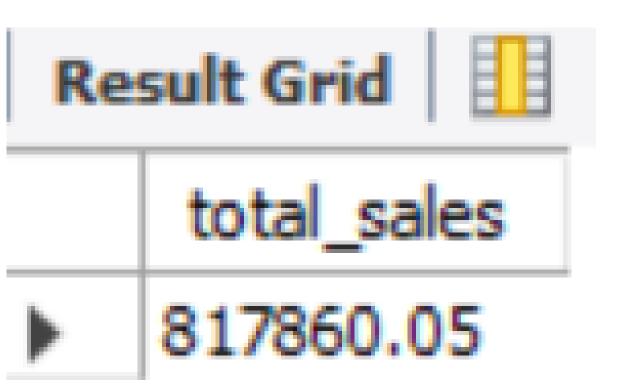


```
SELECT
FROM
    Orders;
SELECT
    COUNT(Order_id) AS total_orders
FROM
    orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT
FROM
   orders;
SELECT
    ROUND(SUM(order_details.Quantity * pizzas.price),
            AS total_sales
FROM
   order_details
        JOIN
   pizzas ON pizzas.pizza id = order details.pizza id
```

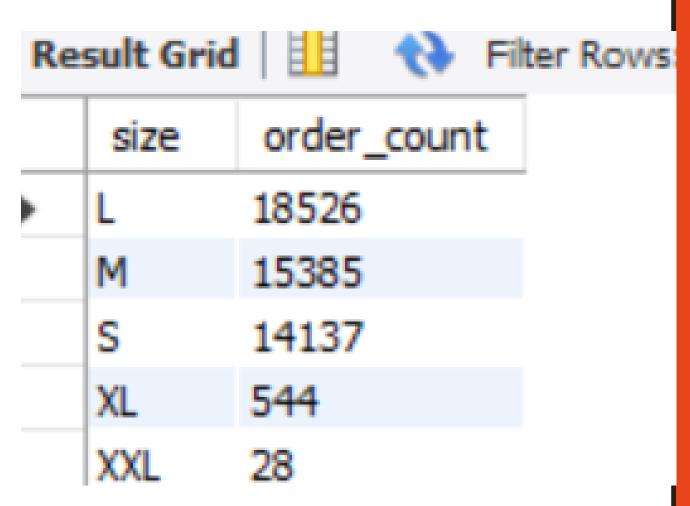


Identify the highest-priced pizza.

```
SELECT * FROM pizzas;
SELECT * FROM pizza_types;
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
                                                   Result Grid
                                                               Filter Rows:
LIMIT 1;
                                                                         price
                                                       name
                                                      The Greek Pizza 35.95
```

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 Result Grid
GROUP BY pizzas.size
ORDER BY order count DESC;
```



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
                                                                                            quantity
                                                               name
ORDER BY quantity DESC
                                                              The Classic Deluxe Pizza
                                                                                           2453
LIMIT 5;
                                                              The Barbecue Chicken Pizza
                                                                                           2432
                                                              The Hawaiian Pizza
                                                                                           2422
```

The Pepperoni Pizza

The Thai Chicken Pizza

2418

2371

Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) A5 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

Determine the distribution of orders by hour of the day.

```
SELECT * FROM orders;
SELECT
    HOUR(order time) AS hour, COUNT(Order id)
FROM
    orders
GROUP BY HOUR(Order time)
```

hour	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

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

```
SELECT * FROM pizza_types;

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

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)
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;
```

```
AVG
(quantity)
```

138.4749

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

```
SELECT
    pizza_types.name,
   SUM(order_details.quantity * pizzas.price) A5 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
                                                           name
                                                                                       revenue
ORDER BY revenue DESC
                                                          The Thai Chicken Pizza
                                                                                      43434,25
LIMIT 3;
                                                          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;
```

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;
```

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 name, revenue trom
(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
                                                                                         revenue
                                                                      name
group by pizza_types.category, pizza_types.name) as a) as b The Thai Chicken Pizza
                                                                                         43434.25
                                                                      The Barbecue Chicken Pizza
                                                                                         42768
where rn <= 3;
                                                                      The California Chicken Pizza
                                                                                         41409.5
                                                                      The Classic Deluxe Pizza
                                                                                         38180.5
                                                                                         32273.25
                                                                      The Hawaiian Pizza
                                                                      The Pepperoni Pizza
                                                                                         30161.75
```

THANK YOU:-)

