

VANSHIKA PACHAURI

PIZZA SALES ANALYSIS PROJECT



ABOUT PROJECT

In the Pizza Sales Analysis Project, I used MySQL as the primary database management system to store and manage large volumes of sales, customer, and menu data. With MySQL, I was able to efficiently query and manipulate the data using SQL commands to identify trends, track sales performance, and analyze customer preferences.

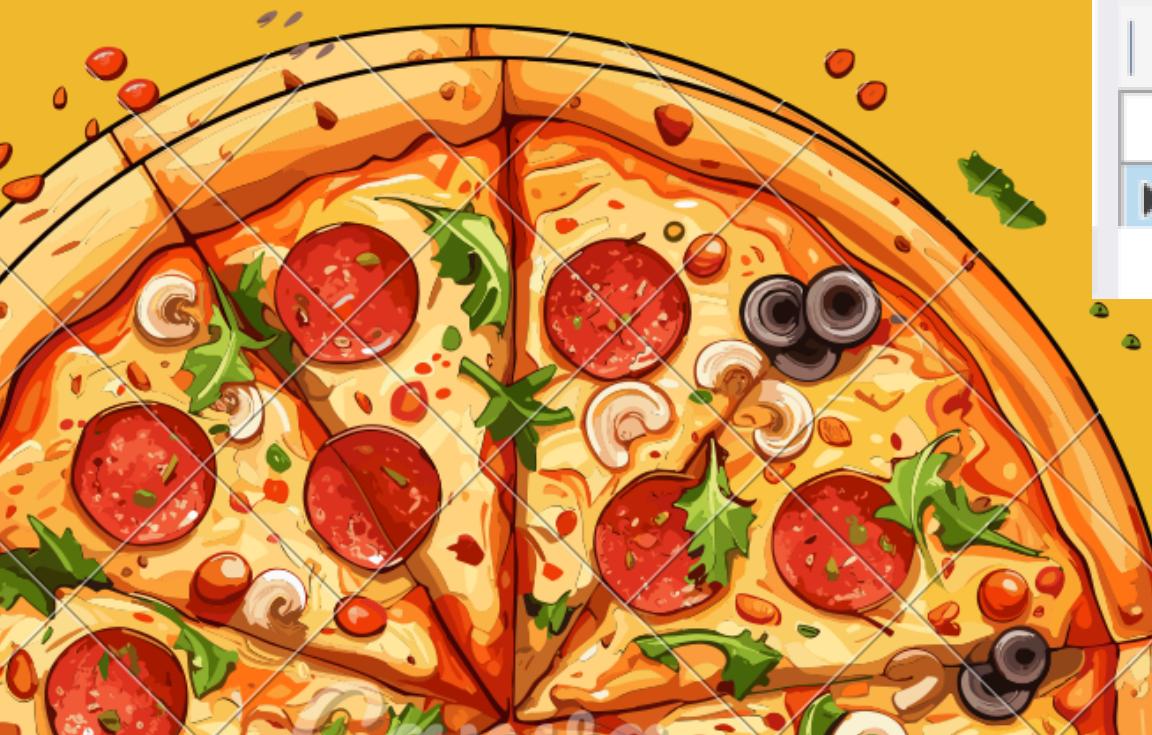




CREATING DATABASE AND TABLES

```
1 • create database pizzahut;
2
3 • create table orders (
4     order_id int not null,
5     order_date date not null,
6     order_time time not null,
7     primary key(order_id) );
8
9
10 • create table order_details (
11     order_details_id int not null,
12     order_id int not null,
13     pizza_id text not null,
14     quantity int not null,
15     primary key(order_details_id) );
16
```

QUERY 1



```
1 -- Retrieve the total number of orders placed --
2
3 • select count(order_id) as total_oders from orders;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

total_oders
21350

QUERY 2

```
1  -- Calculate the total revenue generated from pizza sales --
2
3
4 • SELECT
5   ROUND(SUM(order_details.quantity * pizzas.price),
6         2) AS total_sales
7
8   FROM
9     order_details
10    JOIN
11      pizzas ON pizzas.pizza_id = order_details.pizza_id
```

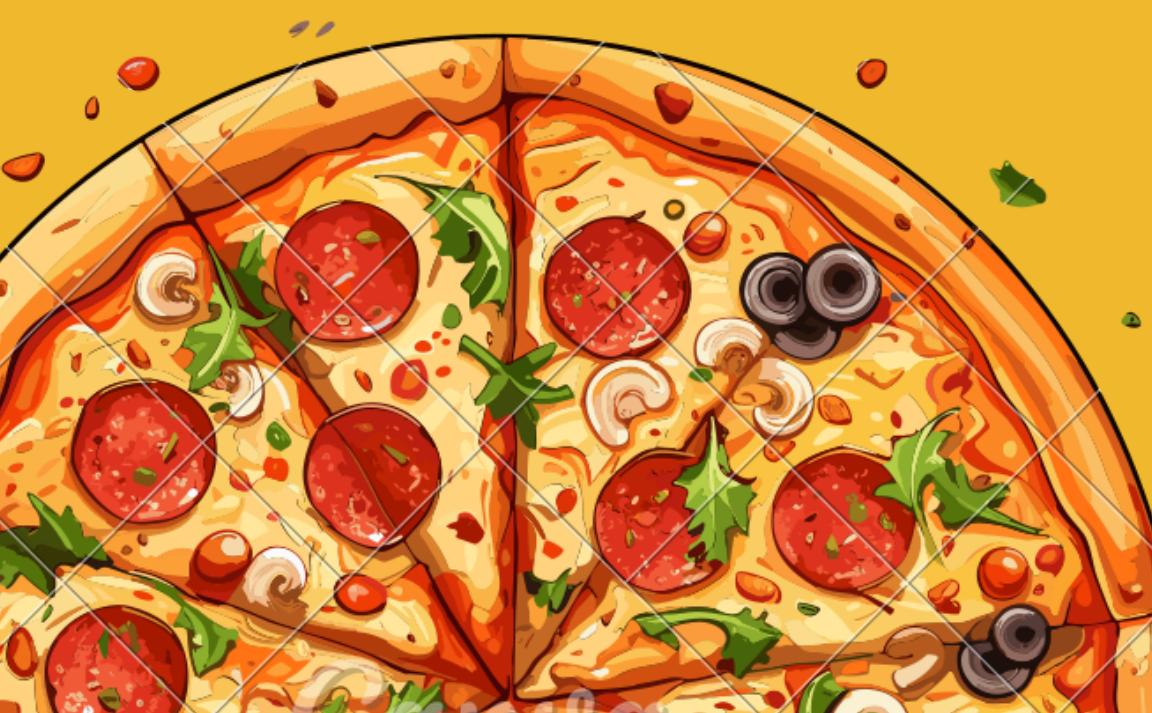
Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

total_sales
817860.05



QUERY 3

```
1  -- Identify the highest-priced pizza.--  
2  
3  
4 • SELECT  
5      pizza_types.name, pizzas.price  
6  FROM  
7      pizza_types  
8      JOIN  
9      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
10 ORDER BY pizzas.price DESC  
11 LIMIT 1;  
12  
--
```



name	price
The Greek Pizza	35.95



QUERY 4

```
1  -- Identify the most common pizza size ordered.  
2  
3 • SELECT  
4      pizzas.size,  
5      COUNT(order_details.order_details_id) AS order_count  
6  FROM  
7      pizzas  
8      JOIN  
9      order_details ON pizzas.pizza_id = order_details.pizza_id  
10 GROUP BY pizzas.size  
11 ORDER BY order_count DESC;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

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

QUERY 5

```
1  -- List the top 5 most ordered pizza types along with their quantities.  
2 • SELECT  
3      pizza_types.name, SUM(order_details.quantity) AS quantity  
4  FROM  
5      pizza_types  
6          JOIN  
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
8          JOIN  
9      order_details ON order_details.pizza_id = pizzas.pizza_id  
10     GROUP BY pizza_types.name  
11     ORDER BY quantity DESC  
12     LIMIT 5;
```

Result Grid | Export: Wrap Cell Content: Fetch rows:

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





QUERY 6

```
1  -- Join the necessary tables to find the total quantity of each pizza category ordered.  
2  
3 • SELECT  
4      pizza_types.category,  
5      SUM(order_details.quantity) AS quantity  
6  FROM  
7      pizza_types  
     JOIN  
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
     JOIN  
9      order_details ON order_details.pizza_id = pizzas.pizza_id  
12 GROUP BY pizza_types.category  
13 ORDER BY quantity DESC;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

QUERY 7

```
1 -- Determine the distribution of orders by hour of the day.  
2  
3  
4 • SELECT  
5     HOUR(order_time) AS hour, COUNT(order_id) AS order_count.  
6 FROM  
7     orders  
8 GROUP BY HOUR(order_time);
```

Result Grid | Filter Rows: _____ | Export: _____ | Wrap Cell Content: _____

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

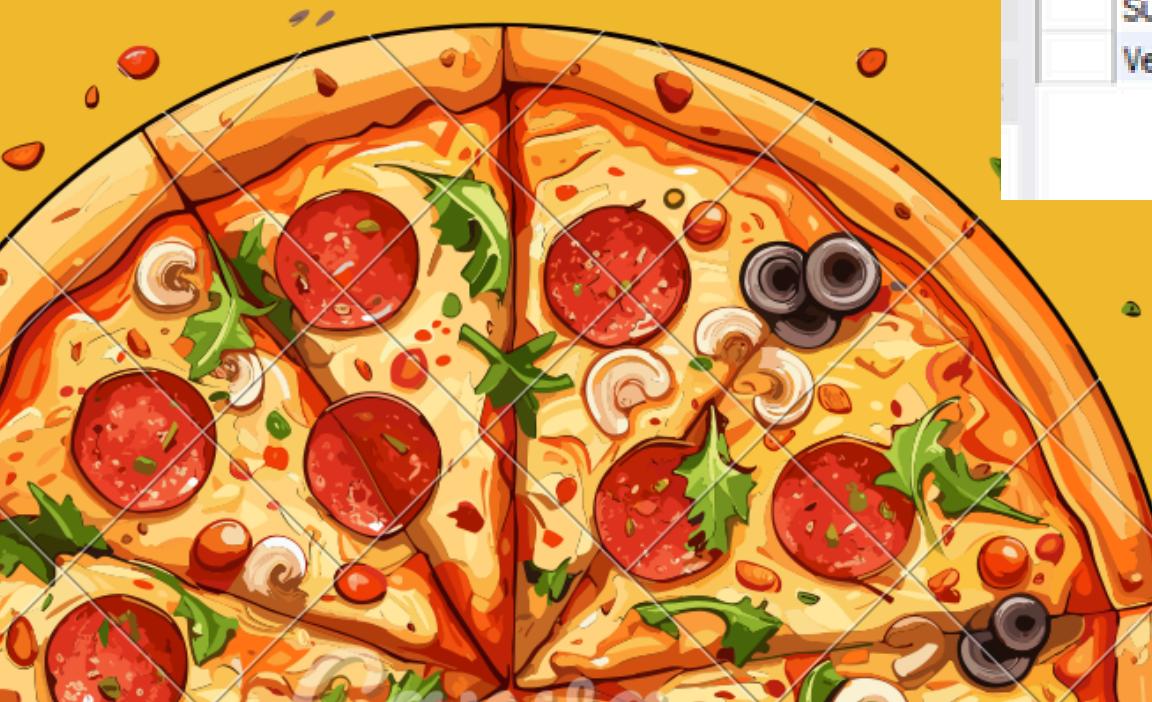


QUERY 8

```
1 -- Join relevant tables to find the category-wise distribution of pizzas.  
2  
3 • SELECT  
4     category, COUNT(name)  
5 FROM  
6     pizza_types  
7 GROUP BY category;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



QUERY 9

```
1  -- Group the orders by date and calculate the average number of pizzas ordered per day.
2
3 • SELECT
4      ROUND(AVG(quantity), 0) as avg_pizzas_ordered_perday
5  FROM
6    (SELECT
7        orders.order_date, SUM(order_details.quantity) AS quantity
8    FROM
9        orders
10   JOIN order_details ON orders.order_id = order_details.order_id
11   GROUP BY orders.order_date) AS order_quantity;
```

Result Grid | Filter Rows: _____ | Export: _____ | Wrap Cell Content: _____

	avg_pizzas_ordered_perday
▶	138



QUERY 10

```
1  -- Determine the top 3 most ordered pizza types based on revenue.  
2 • SELECT  
3      pizza_types.name,  
4      SUM(order_details.quantity * pizzas.price) AS revenue  
5  FROM  
6      pizza_types  
7      JOIN  
8      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
9      JOIN  
10     order_details ON order_details.pizza_id = pizzas.pizza_id  
11    GROUP BY pizza_types.name  
12    ORDER BY revenue DESC  
13    LIMIT 3:
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Fetch rows:

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

QUERY 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 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 | Filter Rows

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



QUERY 12

```
1  -- Analyze the cumulative revenue generated over time.  
2  
3  
4 • select order_date,  
5   sum(revenue) over(order by order_date) as cum_revenue  
6   from  
7   (select orders.order_date,  
8     sum(order_details.quantity * pizzas.price) as revenue  
9     from order_details join pizzas  
10    on order_details.pizza_id = pizzas.pizza_id  
11    join orders  
12    on orders.order_id = order_details.order_id  
13    group by orders.order_date) as sales;
```



Result Grid | Filter Rows:

	order_date	cum_revenue
▶	2015-01-01	2713.850000000004
	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

QUERY 13

Result Grid | Filter Rows:

	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

Result 5

```
1  -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
2
3
4
5 * select name, revenue from
6  (select category, name, revenue,
7   rank() over(partition by category order by revenue desc) as rn
8   from
9   (select pizza_types.category, pizza_types.name,
10    sum((order_details.quantity) * pizzas.price) as revenue
11   from pizza_types join pizzas
12   on pizza_types.pizza_type_id = pizzas.pizza_type_id
13   join order_details|
14   on order_details.pizza_id = pizzas.pizza_id
```

