



PIZZATIME- :)

SQL PIZZA SALES PROJECT

CREATED BY PRANAV PATIL.

PROJECT OVERVIEW

Dataset Used : Pizza Sales

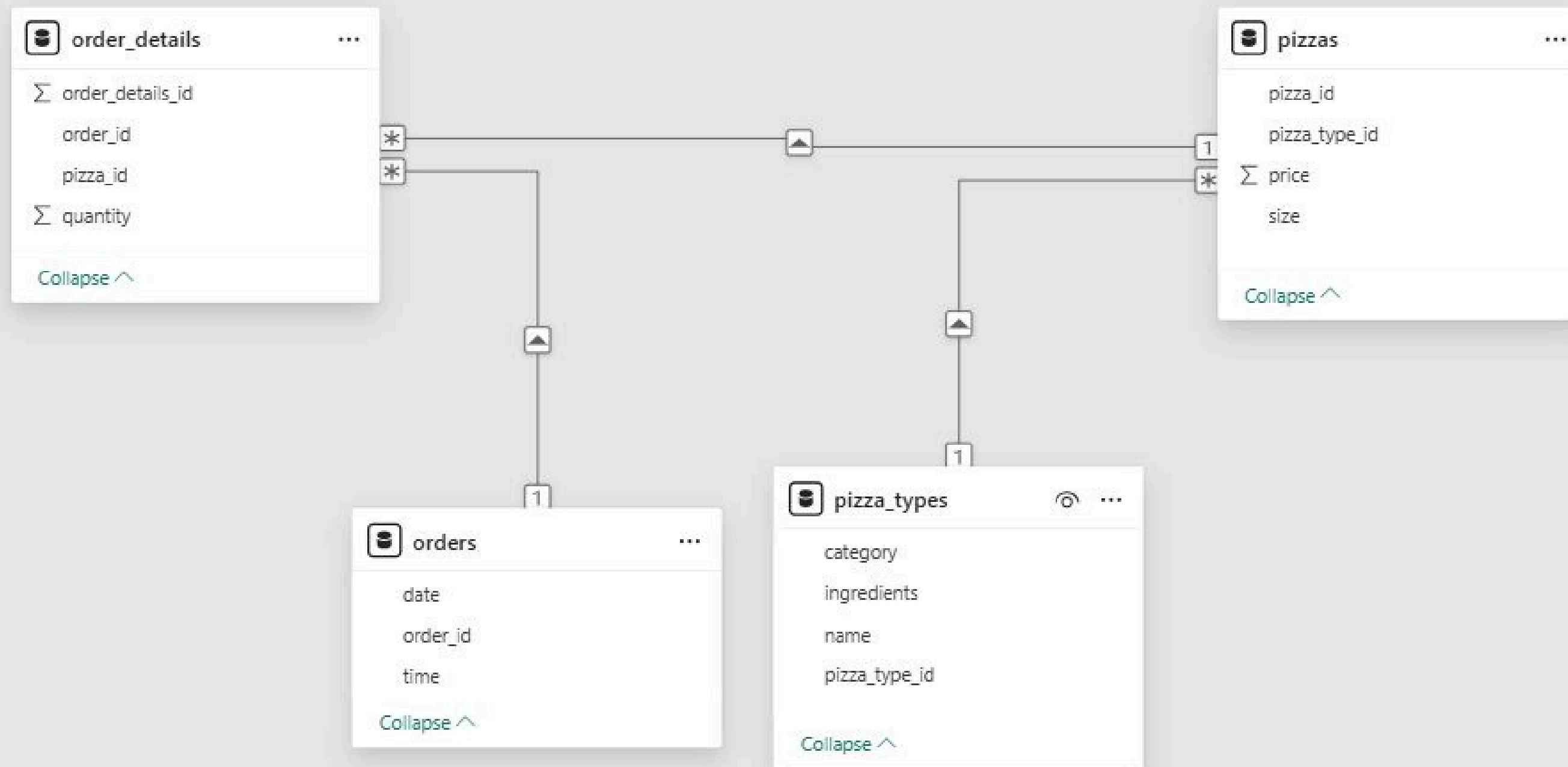
Tools : SQL (MySQL WORKBENCH 8.0)

Objective : To analyze pizza sales data and extract business insights using SQL queries.

Key Focus Areas:

- **Sales performance**
- **Customer behavior**
- **Peak order times**
- **Best and worst-selling pizzas**
- **Daily/Monthly revenue trends**

Dataset Schema



TABLES OVERVIEW

4 • `SELECT * FROM pizza_sales.order_details;`

Result Grid | Filter Rows: | Edit: | Export/Import:

	order_details_id	order_id	pizza_id	quantity
▶	1	1	hawaiian_m	1
	2	2	classic_dlx_m	1
	3	2	five_cheese_l	1
	4	2	ital_supr_l	1
	5	2	mexicana_m	1
	6	2	thai_ckn_l	1
	7	3	ital_supr_m	1

12 • `SELECT * FROM pizza_sales.orders;`

Result Grid | Filter Rows: | Edit: | Export/Import:

	order_id	order_date	order_time
▶	1	2015-01-01	11:38:36
	2	2015-01-01	11:57:40
	3	2015-01-01	12:12:28

13 • `SELECT * FROM pizza_sales.pizza_types;`

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

	pizza_type_id	name	category	ingredients
▶	bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Onions, Pineapple
	cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Red Onions, Pineapple
	ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Onions, Pineapple
	ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Onions, Pineapple
	southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Onions, Pineapple
	thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomato, Red Onions, Pineapple
	big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage

10

11 • `SELECT * FROM pizza_sales.pizzas;`

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

	pizza_id	pizza_type_id	size	price
▶	bbq_ckn_s	bbq_ckn	S	12.75
	bbq_ckn_m	bbq_ckn	M	16.75
	bbq_ckn_l	bbq_ckn	L	20.75
	cali_ckn_s	cali_ckn	S	12.75
	cali_ckn_m	cali_ckn	M	16.75

Questions for extract business insights using SQL queries.

Basic:

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
-

Intermediate:

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Q1.Retrieve the total number of orders placed.

```
3 • SELECT
4     COUNT(order_id) AS total_orders
5 FROM
6     orders;
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	total_orders
▶	21350

Q2. Calculate the total revenue generated from pizza sales.

```
2 • SELECT
3     round(SUM(od.quantity * p.price),2) AS total_revenue
4 from
5     order_details od
6     JOIN
7     pizzas p ON od.pizza_id = p.pizza_id;
```

<	
Result Grid	
Filter Rows: <input type="text"/>	
Export: 	
Wrap Cell Content: 	
	total_revenue
▶	817860.05

Q3. Identify the highest-priced pizza.

```
2 • SELECT
3     pt.name, p.price
4 FROM
5     pizzas p
6     JOIN
7     pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
8 ORDER BY p.price DESC
9 LIMIT 1;
```

<		
Result Grid		
Filter Rows: <input type="text"/>		
Export: <input type="button" value="Export"/>		
Wrap Cell Content: <input type="button" value="Wrap"/>		
	name	price
▶	The Greek Pizza	35.95

Q4. Identify the most common pizza size ordered.

```
2 • SELECT
3     p.size, COUNT(od.order_details_id) as common_order
4 FROM
5     pizzas p
6     JOIN
7     order_details od ON od.pizza_id = p.pizza_id
8 GROUP BY size
9 order by common_order desc;
```

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

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

Q5. List the top 5 most ordered pizza types along with their quantities.





```
2 • SELECT
3     pt.name, SUM(od.quantity) AS Total_quantity
4 FROM
5     order_details od
6     JOIN
7     pizzas p ON od.pizza_id = p.pizza_id
8     JOIN
9     pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
10 GROUP BY pt.name
11 ORDER BY Total_quantity DESC
12 LIMIT 5;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	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			

Q6. find the total quantity of each pizza category ordered.




```
3 • SELECT
4     pt.category, SUM(od.quantity) AS totl_quantity
5 FROM
6     pizza_types pt
7     JOIN
8     pizzas p ON pt.pizza_type_id = p.pizza_type_id
9     JOIN
10    order_details od ON od.pizza_id = p.pizza_id
11 GROUP BY pt.category
12 ORDER BY totl_quantity DESC;
```

<

Result Grid		 Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	category	totl_quantity		
▶	Classic	14888		
	Supreme	11987		
	Veggie	11649		
	Chicken	11050		




Q7.Determine the distribution of orders by hour of the day.

```
2 • SELECT
3     HOUR(order_time) AS hour, COUNT(order_id)
4 FROM
5     orders
6 GROUP BY HOUR(order_time);
```

<		
Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 		
	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
	22	663
	23	28
	10	8
	9	1

Q8. 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



Q9.Group the orders by date and calculate the average number of pizzas ordered per day.

```
2 • select round(avg(quantity),0) as per_day_pizza_order from
3 (SELECT
4     SUM(od.quantity)as quantity, o.order_date
5 FROM
6     orders o
7     JOIN
8     order_details od ON o.order_id = od.order_id
9 GROUP BY o.order_date)as order_quantity;
```

<	
Result Grid	  Filter Rows: <input type="text"/>
Export:	 Wrap Cell Content: 
per_day_pizza_order	
▶	138

Q10.Determine the top 3 most ordered pizza types based on revenue.

```
2 • SELECT
3     pt.name, sum(od.quantity * p.price) AS revenue
4 FROM
5     order_details od
6     JOIN
7     pizzas p ON p.pizza_id = od.pizza_id
8     JOIN
9     pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
10    group by pt.name
11 ORDER BY revenue DESC
12 LIMIT 3;
```

<		
Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Q11. Calculate the percentage contribution of each pizza type to total revenue.

2 • SELECT

3 pt.category,

4 ROUND(SUM(p.price * od.quantity) / (SELECT

5 SUM(od.quantity * p.price) AS revenue

6 FROM

7 order_details od

8 JOIN

9 pizzas p ON od.pizza_id = p.pizza_id) * 100,

10 2) AS total_revenue

11 FROM

12 pizza_types pt

13 JOIN

14 pizzas p ON pt.pizza_type_id = p.pizza_type_id


15 JOIN


16 order_details od ON od.pizza_id = p.pizza_id


17 GROUP BY pt.category;

18

Result Grid

 Filter Rows:

Export: 




Wrap Cell Content: 

	category	total_revenue
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

Q12. Analyze the cumulative revenue generated over time.

```
2 • select order_date, round(sum(revenue) over(order by order_date), 2) as cum_rev from
3 (SELECT
4     o.order_date, SUM(od.quantity * p.price) AS revenue
5 FROM
6     order_details od
7     JOIN
8     pizzas p ON od.pizza_id = p.pizza_id
9     JOIN
10    orders o ON o.order_id = od.order_id
11 GROUP BY o.order_date) as sales;
```

<

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

	order_date	cum_rev
▶	2015-01-01	2713.85
	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

Result 3 ×

Q13.Determine the top 3 most ordered pizza types based on revenue for each pizza category.

2

3 • select category,name,revenue from

4 (select category,name, revenue,rank() over(partition by category order by revenue desc) as rk from

5 (SELECT

6 pt.category, pt.name, SUM(od.quantity * p.price) AS revenue

7 FROM

8 order_details od

9 JOIN

10 pizzas p ON od.pizza_id = p.pizza_id

11 JOIN

12 orders o ON o.order_id = od.order_id join pizza_types pt on pt.pizza_type_id = p.pizza_type_id

13 GROUP BY pt.category , pt.name)as a) as b where rk<=3;

<

Result Grid

↺

Filter Rows:

Export:

Wrap Cell Content:

	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

Key Insights

- **Peak sales are during AFTENNOON & EVENING.**
- **Most ordered pizza: The classic deulex pizza**
- **Least ordered pizza: The peperoni chiese pizza**
- **Highest revenue from Medium size pizzas.**
- **Average daily revenue: ₹2284.56**

Conclusion/Business Impact

- **These insights help improve inventory management.**
- **Marketing focus should be on best-selling pizza types.**
- **Peak hours analysis helps optimize staff scheduling.**

T
H
A
N
K

Y
O
U

