



PIZZAZ

HOUSE

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PROJECT OVERVIEW

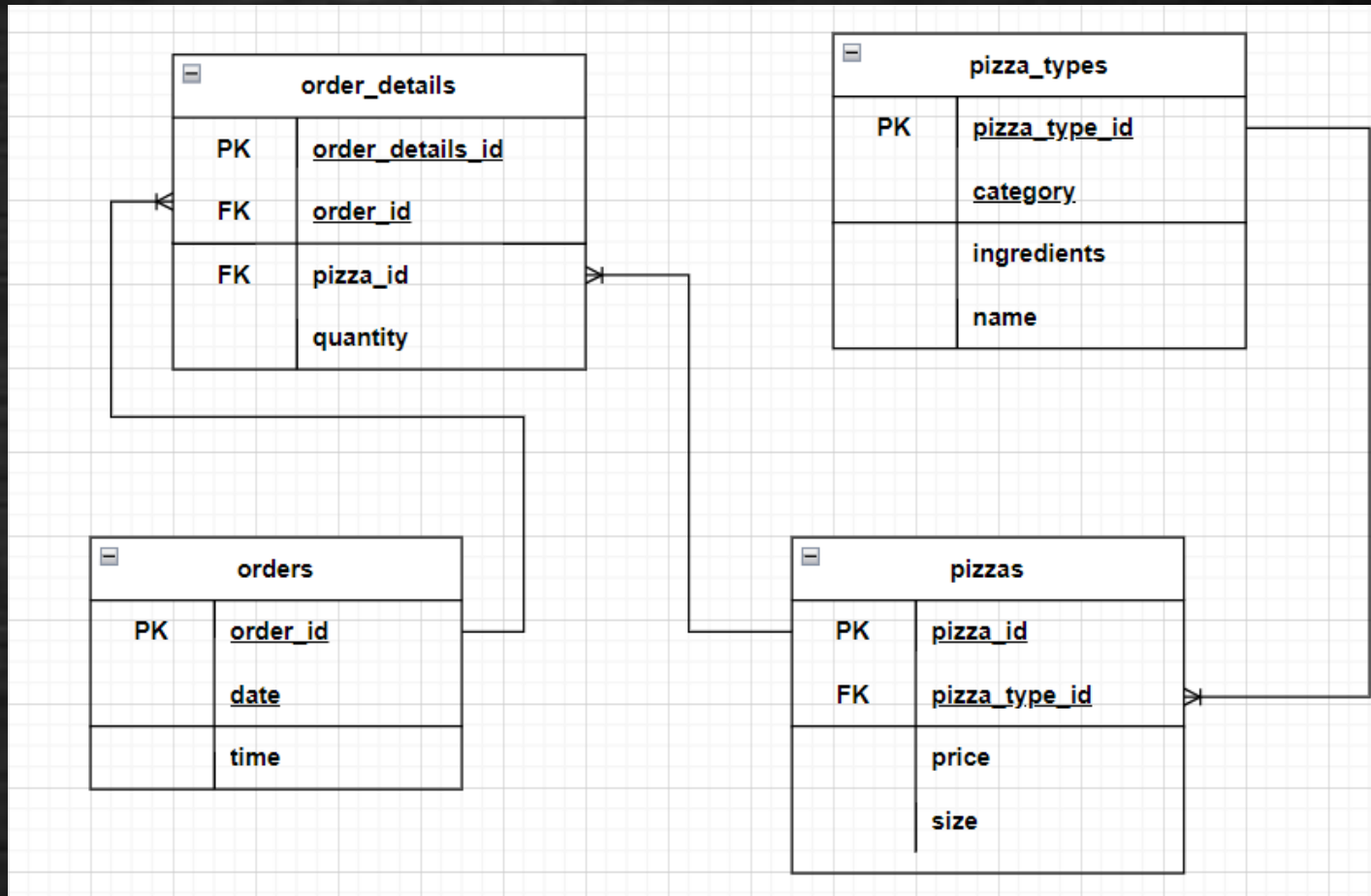
The Pizza Sales Analysis project leverages SQL to explore sales patterns, customer preferences, and business performance of a pizza house. Basic analysis includes calculating total orders, revenue, identifying the highest-priced pizza, the most common pizza size, and the top 5 most ordered pizza types. Intermediate analysis involves joining tables to find total quantities of each pizza category, distribution of orders by hour, category-wise pizza distribution, daily average orders, and top 3 pizza types of revenue. Advanced analysis calculates each pizza types's revenue contribution, cumulative revenue over time, and top 3 pizza types by revenue within each category. These insights guide strategic decisions to optimize operations and boost profitability.

Analysis Questions

1. Retrieve the total number of orders placed.
2. Calculate the total revenue generated from pizza sales.
3. Identify the highest-priced pizza.
4. Identify the most common pizza size ordered.
5. List the top 5 most ordered pizza types along with their quantities.
6. Join the necessary tables to find the total quantity of each pizza category ordered.
7. Determine the distribution of orders by hour of the day.
8. Find the category-wise distribution of pizzas.
9. Group the orders by date and calculate the average number of pizzas ordered per day.
10. Determine the top 3 most ordered pizza types based on revenue.
11. Analyze the cumulative revenue generated over time.
12. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

SCHEMA

Entity Relationship Diagram



1. Retrieve the total number of order placed

```
select count(order_id) as toatal_number_order from orders;
```

Data Output Messages Notifications



	toatal_number_order
1	21350

2. Calculate the total revenue generated by pizza sale.

```
44  
45 ▼ select round((sum(order_details.quantity * pizzaz.price))::numeric,2)  
46     as total_sale  
47     from order_details  
48     join pizzaz  
49     on order_details.pizza_id= pizzaz.pizza_id ;  
50  
51
```

Data Output Messages Notifications





	total_sale numeric
1	2002.85

3. Identify the highest-priced pizza

```
45  ✓ select pizza_types.name, pizzaz.price
46      from pizzaz
47      join pizza_types
48      on pizzaz.pizza_type_id = pizzaz.pizza_type_id
49      order by pizzaz.price
50      desc limit 1;
51
52  |
```

Data Output Messages Notifications

	name character varying (70) 	price double precision 
1	The California Chicken Pizza	35.95

4. Identify the most common sized pizza ordered.

```
44
45 ▼ select pizzaz.size , sum(order_details.quantity)as quantity
46     from pizzaz join order_details
47     on pizzaz.pizza_id = order_details.pizza_id
48     group by pizzaz.size
49     order by quantity
50     desc limit 1;
51
52
```

Data Output Messages Notifications



	size character varying (2) 🔒	quantity bigint 🔒
1	L	54

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

```
44  
45 select pizza_types.name , sum(order_details.quantity) as quantity  
46 from order_details join pizzaz  
47 on pizzaz.pizza_id = order_details.pizza_id join pizza_types  
48 on pizza_types.pizza_type_id = pizzaz.pizza_type_id  
49 group by pizza_types.name |  
50 order by quantity desc limit 5;  
51
```

Data Output Messages Notifications

	name character varying (70)	quantity bigint
1	The Italian Supreme Pizza	12
2	The Mexicana Pizza	8
3	The Green Garden Pizza	7
4	The Thai Chicken Pizza	7
5	The Barbecue Chicken Pizza	7

6. Determine the distribution of order by hour per day.

```
8 select extract(hour from time) as hour , count(order_id)
9      as order_count
10     from orders
11     group by hour;
```

	hour numeric	order_count bigint
1	11	1231
2	23	28
3	18	2399
4	19	2009
5	15	1468
6	9	1
7	21	1198
8	17	2336
9	20	1642
10	13	2455
11	10	8
12	16	1920
13	22	663

7. Find the total quantity of each pizza category ordered.

```
15 select category ,sum(quantity) as quantity from pizza_types join pizzaz
16 on pizza_types.pizza_type_id = pizzaz.pizza_type_id
17 join order_details on pizzaz.pizza_id = order_details.pizza_id
18 group by category
19 order by quantity desc ;
20
21
```

Data Output Messages Notifications

	category character varying (20) 🔒	quantity bigint 🔒
1	Veggie	36
2	Chicken	26
3	Classic	24
4	Supreme	23

8 . find the category-wise distribution of pizzas.

```
14
15  select category, count(name) as count from pizza_types group by category ;
```

Data Output Messages Notifications			
SQL			
	category character varying (20) 🔒	count bigint 🔒	
1	Chicken	5	
2	Supreme	1	
3	Chicken	1	
4	Veggie	9	

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

```
14
15 v select round((avg(q))::numeric,0) as average_order_per_day from (
16     select orders.date , sum(order_details.quantity) as q from order_details join orders
17     on order_details.order_id = orders.order_id group by orders.date )
18
```

Data Output Messages Notifications



	average_order_per_day numeric
1	120

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

```
14  
15 ▼ select pizza_types.name , sum(order_details.quantity * pizzaz.price) as revenue  
16 from order_details join pizzaz on pizzaz.pizza_id = order_details.pizza_id  
17 join pizza_types on pizzaz.pizza_type_id = pizza_types.pizza_type_id  
18 group by pizza_types.name order by revenue desc limit 3;  
19
```

Data Output Messages Notifications



	name character varying (70) 🔒	revenue double precision 🔒
1	The Italian Supreme Pizza	211
2	The Mexicana Pizza	145.25
3	The Thai Chicken Pizza	137.25

11. Analyze the cumulative revenue generated over time.

```
12
13 v |select date, sum(revenue) over (order by date ) as cumulative_revenue from (select orders.date,
14 sum(order_details.quantity * pizzaz.price) as revenue from orders join order_details
15 on order_details.order_id = orders.order_id join pizzaz on
16 order_details.pizza_id=pizzaz.pizza_id group by orders.date) as sales
17
```

Data Output Messages Notifications



	date date	cumulative_revenue double precision
1	2015-01-01	2002.85000000000001

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

```
13  
14  
15 ▼ select pizzaz.size, sum(order_details.quantity) as total_sold from pizzaz join  
16 order_details on pizzaz.pizza_id = order_details.pizza_id  
17 group by pizzaz.size order by total_sold desc;
```

Data Output Messages Notifications



	size character varying (2) 🔒	total_sold bigint 🔒
1	L	54
2	S	34
3	M	32

THANK

YOU!

