

# **Pizza Sales analysis using MySQL Queries**



# Queries Used to Analyze

1. Total Revenue
2. Highest Priced Pizza
3. Most common pizza size ordered
4. Top 5 ordered pizza along with their quantities
5. Total quantity of each pizza category
6. Distribution by hour of day
7. Category wise distribution
8. Top 3 most ordered pizza
9. % contribution of each pizza type
10. The average number of pizzas ordered per day
11. Cumulative income generated
12. Top 3 ordered pizza type on the basis of revenue for each category

# Calculate the total revenue generated from pizza sales

Input query:

```
1  -- Calculate the total revenue generated from pizza sales.
2
3  •  select
4     round(sum(order_details.quantity * pizzas.price),2) as total_revenue
5     from order_details join pizzas
6     on pizzas.pizza_id = order_details.pizza_id;
```

Output:

Result Grid	
	total_revenue
▶	817860.05




# Identify the highest-priced pizza.

Input query:

```
1  -- Identify the highest-priced pizza.  
2  Execute the selected portion of the script or everything, if there is no selection  
3  • select pizza_types.name, pizzas.price  
4     from pizza_types join pizzas  
5     on pizza_types.pizza_type_id=pizzas.pizza_type_id  
6     order by pizzas.price desc limit 1;
```

Output:

Result Grid    Filter R		
	name	price
▶	The Greek Pizza	35.95



# Identify the most common pizza size ordered.

Input query :

```
3 • select pizzas.size, count(order_details.order_detailsID) as order_count
4   from pizzas join order_details
5   on pizzas.pizza_id = order_details.pizza_id
6   group by pizzas.size order by order_count desc;
```

Output:

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





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

Input query :

```
1  -- List the top 5 most ordered pizza types along with their quantities.
2
3  •  select pizza_types.name,
4     sum(order_details.quantity) as quantity
5  from pizza_types join pizzas
6  on pizza_types.pizza_type_id = pizzas.pizza_type_id
7  join order_details
8  on order_details.pizza_id = pizzas.pizza_id
9  group by pizza_types.name order by quantity desc limit 5;
```

Output:

Result Grid   Filter Rows: <input type="text"/>		
	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



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

Input query :

```
1  -- Join the necessary tables to find the total quantity of each pizza category.
2
3  • select pizza_types.category,
4     sum(order_details.quantity) as quantity
5  from pizza_types join pizzas
6  on pizza_types.pizza_type_id=pizzas.pizza_type_id
7  join order_details
8  on order_details.pizza_id=pizzas.pizza_id
9  group by category order by quantity desc;
```

Output:

Result Grid			Filter
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

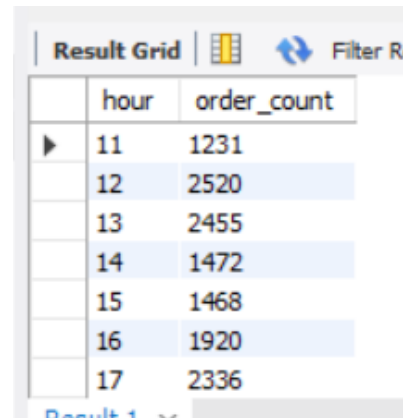


# Determine the distribution of orders by hour of the day.

Input query :

```
1  -- Determine the distribution of orders by hour of the day.
2
3  • select hour (order_time) as hour, count(order_id) as order_count from orders
4  group by hour (order_time);
```

Output:



The screenshot shows a database interface with a 'Result Grid' tab. It displays a table with two columns: 'hour' and 'order\_count'. The data is as follows:

hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336

Below the table, it says 'Result 1 of 1'.





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

Input query :

```
1  -- Join relevant tables to find the category-wise distribution of pizzas.  
2  
3  • select category, count(name) from pizza_types  
4  group by category;
```

Output:

Result Grid   Filter Rows:		
	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

Input query:

```
1  -- Determine the top 3 most ordered pizza types based on revenue.
2
3  • select pizza_types.name, sum(order_details.quantity*pizzas.price) as revenue
4    from pizza_types join pizzas
5    on pizzas.pizza_type_id=pizza_types.pizza_type_id
6    join order_details
7    on order_details.pizza_id=pizzas.pizza_id
8    group by pizza_types.name order by revenue desc limit 3;
```

Output:

Result Grid			Filter Rows:
	name	revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	



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

Input query :

```
1  -- Calculate the percentage contribution of each pizza type to total revenue.
2
3  select pizza_types.category, round(sum(order_details.quantity*pizzas.price) / (select round(sum(order_details.quantity*pizzas.price),2) as total_sales
4  from order_details join pizzas
5  on pizzas.pizza_id=order_details.pizza_id)*100,2) as revenue
6  from pizza_types join pizzas
7  on pizza_types.pizza_type_id = pizzas.pizza_type_id
8  join order_details
9  on order_details.pizza_id=pizzas.pizza_id
10 group by pizza_types.category order by revenue desc;
```

Output:

Result Grid			Filter
	category	revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

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

Input query:

```
1  -- Group the orders by date and calculate the average number of pizzas ordered per day
2
3  • select round(avg(quantity),0) as avg_pizza_ordered_per_day from
4  (select orders.order_date, sum(order_details.quantity) as quantity
5   from orders join order_details
6   on orders.order_id = order_details.order_id
7   group by orders.order_date) as order_quantity |
```

Output:

Result Grid		Filter Rows:
	avg_pizza_ordered_per_day	
▶	138	

# Analyze the cumulative revenue generated over time.

Input query:

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

Output:

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01 00:00:00	2713.85000000000004	
	2015-01-02 00:00:00	5445.75	
	2015-01-03 00:00:00	8108.15	
	2015-01-04 00:00:00	9863.6	
	2015-01-05 00:00:00	11929.55	
	2015-01-06 00:00:00	14358.5	
	2015-01-07 00:00:00	16560.7	

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

Input query :

```
-- 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:

Result Grid			Filter Rows:
	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	22476.75	
Result 1			×