

MySQL Project Pizza Sales Analysis

**By :- Ashmi
Hans**



Objective

Analyze the pizza sales database to extract valuable insights about the sales trends and customer behaviour, examine the dataset and help to understand business-related questions and make the right strategies in the future.





Q1.Retrieve the total number of orders placed.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

- ecommerce
- pizzahut
 - Tables
 - orders
 - orders_details
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions
- sys

query-01 SQL File 3* x

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

Limit to 1000 rows

Result Grid

	total_orders
▶	21350



Q2. Calculate the total revenue generated from pizza sales.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

query-01 SQL File 3* SQL File 4* x

Limit to 1000 rows

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

Result Grid

total_sales
817860.05



Q3. Identified the highest priced pizza.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: query-01 SQL File 3* SQL File 4* SQL File 5* x

Limit to 1000 rows

SCHEMAS

Filter objects

ecommerce

pizzahut

Tables

orders

orders_details

pizza_types

pizzas

Views

Stored Procedures

Functions

sys

```
1 -- Identify the highest-priced pizza.
2 • select
3 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
7 limit 1;
```

Result Grid

name	price
The Greek Pizza	35.95



Q4. Identified the most common pizza size ordered.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* x

Limit to 1000 rows

1 -- Identify the most common pizza size ordered.

2 • **select** pizzas.size, count(orders_details.order_details_id) **as** order_count

3 **from** pizzas **join** orders_details

4 **on** pizzas.pizza_id = orders_details.pizza_id

5 **group by** pizzas.size **order by** order_count **desc**;

Result Grid

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



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



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* x

Limit to 1000 rows

SCHEMAS

Filter objects

ecommerce

pizzahut

Tables

orders

orders_details

pizza_types

pizzas

Views

Stored Procedures

Functions

sys

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

Result Grid

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



Q6.Join the necessary tables to find the total quantity of each pizza category ordered.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* x

Limit to 1000 rows

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

Result Grid

	category	quantity
▶	Chicken	11050
	Veggie	11649
	Supreme	11987
	Classic	14888



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



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 1000 rows

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

Result Grid

hours	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

Navigation: Schemas

Filter objects

ecommerce

pizzahut

Tables

- orders
- orders_details
- pizza_types
- pizzas

Views

Stored Procedures

Functions

sys

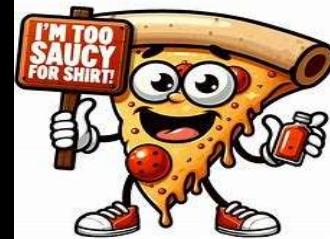
Administration Schemas

Information

Table: orders_details



Q8. Join relevant tables to find the category wise distribution of pizzas.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* x

Limit to 1000 rows

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

Result Grid

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.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10*

SCHEMAS

Filter objects

- ecommerce
 - pizzahut
 - Tables
 - orders
 - orders_details
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions
 - sys

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

Limit to 1000 rows

Result Grid

avg_pizzas_per_day
138



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



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL F

Limit to 1000 rows

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

Result Grid

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

Administration Schemas Information



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



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

- ecommerce
- pizzahut
 - Tables
 - orders
 - orders_details
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions
- sys

query-01 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 1000 rows

```
1 -- Calculate the percentage contribution of each pizza type to total revenue.
2 select pizza_types.category,
3 ROUND(
4 (sum(orders_details.quantity * pizzas.price) /
5 (select sum(orders_details.quantity * pizzas.price)
6 from orders_details join pizzas
7 on pizzas.pizza_id = orders_details.pizza_id) * 100), 2) as revenue
8 from pizza_types
9 join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
10 join orders_details on orders_details.pizza_id = pizzas.pizza_id
11 group by pizza_types.category
12 order by revenue desc
13 LIMIT 0, 1000;
14
```

Result Grid

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Administration Schemas Information



Q12. Analyze the cumulative revenue generated over time.



MySQL Workbench

Local instance MySQL80 (pizzahut) x Local instance MySQL80 (piz... x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

ecommerce
pizzahut
Tables
orders
orders_details
pizza_types
pizzas
Views
Stored Procedures
Functions
sys

Query 1

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

Result Grid

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	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

Administration Schemas

Information

No object selected





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



MySQL Workbench

Local instance MySQL80 (pizzahut)x Local instance MySQL80 (piz...

File Edit View Query Database Server Tools Scripting Help

Navigator: pizzahut

- ecommerce
- pizzahut
 - Tables
 - orders
 - orders_details
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions
- sys

Query 1 SQL File 1*

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

Result Grid

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

Administration Schemas

No object selected



THANK YOU

