

SQL PROJECT

Introduction

- Hello, my name is Shubham Singh and in this project I have used SQL queries to solve multiple questions ranging from difficulty levels of easy to hard.
- I have used MySQL to solve the given questions.
- We have 4 tables in the database which provide the details about Pizza Sales of an outlet.

Q1) Calculate the total revenue generated from pizza sales.

```
9 • select round(sum(pizzas.price*order_details.quantity),2) as revenue
10 from pizzas join order_details
11 on pizzas.pizza_id = order_details.pizza_id
12
```

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Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	revenue
▶	817860.05

Q2) Identify the highest-priced pizza.

```
7 • select name, price, size from pizza_types join pizzas
8    on pizza_types.pizza_type_id = pizzas.pizza_type_id
9    order by price desc
10   limit 1
11
```

<




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

	name	price	size
▶	The Greek Pizza	35.95	XXL

Q3) Join the necessary tables to find the total quantity of each pizza category ordered.

```
5 • select sum(order_details.quantity) as total_quantity, pizza_types.category
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
11 order by total_quantity desc
```

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

	total_quantity	category
▶	14888	Classic
	11987	Supreme
	11649	Veggie
	11050	Chicken

Q4) Determine the distribution of orders by hour of the day.

```
10 • select hour(order_time), count(order_id) from orders
11     group by hour(order_time)
12
```

<   Filter Rows: | Export:  | Wrap Cell Content: 

	hour(order_time)	count(order_id)
▶	11	1200
	12	2467
	13	2403
	14	1443
	15	1431
	16	1871

Q5) Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    order_details
    JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
    JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3
```

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

Q6) 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),0)  
from order_details join pizzas  
on order_details.pizza_id= pizzas.pizza_id)*100),0) as percentage_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
```

	category	percentage_revenue
▶	Classic	27
	Veggie	24
	Supreme	25
	Chicken	24

Q7) Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select category, 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
```

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
Veggie	The Four Cheese Pizza	32265.700000000065
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5

DATABASE SCHEMA

pizzas					
Field	Type	Null	Key	Default	Extra
pizza_id	text	YES		NULL	
pizza_type_id	text	YES		NULL	
size	text	YES		NULL	
price	double	YES		NULL	

orders				
Field	Type	Null	Key	Default
order_id	int	NO	PRI	NULL
order_date	date	NO		NULL
order_time	time	NO		NULL

pizza_types				
Field	Type	Null	Key	Default
pizza_type_id	text	YES		NULL
name	text	YES		NULL
category	text	YES		NULL
ingredients	text	YES		NULL

order_details				
Field	Type	Null	Key	Default
order_details_id	int	NO	PRI	NULL
order_id	int	NO		NULL
pizza_id	text	NO		NULL
quantity	int	NO		NULL

THANK YOU