# 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.

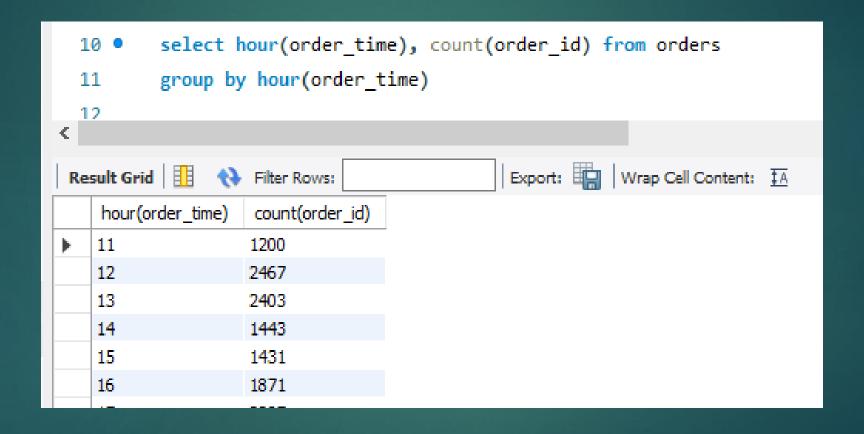
#### Q2) Identify the highest-priced pizza.

```
select name, price, size from pizza_types join pizzas
         on pizza_types.pizza_type_id = pizzas.pizza_type_id
         order by price desc
  9
         limit 1
 10
 11
Result Grid
                                           Export: Wrap Cell Conten
              ♦ Filter Rows:
                 price
                        size
   name
  The Greek Pizza
                35.95
                       XXL
```

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

```
select sum(order details.quantity) as total_quantity, pizza_types.category
  5 •
         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
  9
 10
         group by pizza_types.category
         order by total quantity desc
11
Result Grid
                                             Export: Wrap Cell Content: $\overline{TA}$
               Filter Rows:
   total quantity
                category
   14888
                Classic
   11987
                Supreme
   11649
                Veggie
                Chicken
   11050
```

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



#### 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
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn<=3</pre>
```

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	32265.70000000065
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5

### DATABASE SCHEMA

Туре	Null	Key	Default	Extra
text	YES		NULL	
text	YES			
text	YES		NULL	
double	YES		NULL	
	text text text	text YES text YES text YES	text YES text YES text YES	text YES NULL text YES NULL text YES

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

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

order_detai				
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

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### THANK YOU