

SQL views and queries

• Views

#Question 1. Retrieve the total number of orders placed.

```
SELECT * FROM total_number_of_orders;
```

#Question 2. Calculate the total revenue generated from pizza sales

```
SELECT * FROM total_revenue_generated_from_pizza_sales;
```

#Question 3. Identify the most common pizza size ordered

```
SELECT * FROM most_common_pizza_size ;
```

#Question 4. List the top 5 most ordered pizza types along with their quantities

```
SELECT * FROM top_5_most_ordered_pizzas;
```

#Question 5. Determine the distribution of orders by hour of the day.

```
SELECT * FROM orders_by_hour;
```

#Question 6. Find the category-wise distribution of pizzas.

```
SELECT * FROM category_wise_distribution_of_pizzas;
```

#Question 7. Group the orders by date and calculate the average number of pizzas ordered per day

```
SELECT * FROM avg_number_of_pizza_order_per_day;
```

#Question 8. Determine the top 3 most ordered pizza types based on revenue

```
SELECT * FROM top_3_by_revenue;
```

#Question 9. Calculate the percentage contribution of each pizza type to total revenue

```
SELECT * FROM percent_revenue_of_pizza_by_total_revenue;
```

#Question 10. Determine the top 3 most ordered pizza types based on revenue for each pizza category

```
SELECT * FROM top_3_by_revenue_category;
```

• Queries

1.CREATE VIEW total_number_of_orders AS

```
SELECT
```

```
COUNT(order_id) AS total_orders
```

```
FROM
```

```
orders;
```

```
2.CREATE VIEW total_revenue_generated_from_pizza_sales AS
```

```
SELECT
```

```
ROUND(SUM(order_details.quantity * pizzas.price),
```

```
2) AS total_sales
```

```
FROM
```

```
order_details
```

```
JOIN
```

```
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

```
3.CREATE VIEW most_common_pizza_size AS
```

```
SELECT
```

```
pizzas.size,
```

```
COUNT(order_details.order_details_id) AS order_count
```

```
FROM
```

```
pizzas
```

```
JOIN
```

```
order_details ON pizzas.pizza_id = order_details.pizza_id
```

```
GROUP BY pizzas.size
```

```
ORDER BY order_count DESC;
```

```
4.CREATE VIEW top_5_most_ordered_pizzas AS
```

```
SELECT
```

```
pizza_types.name, SUM(order_details.quantity) AS qauntity
```

```
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.name

ORDER BY qauntity DESC

LIMIT 5;
```

5. CREATE VIEW orders_by_hour AS

```
SELECT

HOUR(order_time), COUNT(order_id)

FROM

orders

GROUP BY HOUR(order_time);
```

6.CREATE VIEW category_wise_distribution_of_pizzas AS

```
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

7.CREATE VIEW avg_number_of_pizza_order_per_day AS

```
SELECT

AVG(quantity)

FROM

(SELECT

orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity;
```

8.CREATE VIEW top_3_by_revenue AS

```
SELECT

pizza_types.name,

SUM(order_details.quantity * pizzas.price) AS revenue
```

```

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;

```

9.CREATE VIEW percent_revenue_of_pizza_by_total_revenue AS

```

SELECT

pizza_types.category,

ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

2) AS total_sales

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,

2) 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

ORDER BY revenue DESC;

```

10.create view top_3_by_revenue_category as

```

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;
```