

PIZZA SALES ANAL- YSIS



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1. Retrieve the total number of orders placed.

Query:-

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

Output:-

	total_orders
▶	21350

2.Calculate the total revenue generated from pizza sales.

Query:-

```
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
```

Output:-

	total_sales
▶	817860.05

3.Identify the highest-priced pizza.

Query:-

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Output:-

name	price
The Greek Pizza	35.95

4. Identify the most common pizza size ordered.

Query:-

```
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;
```

Output:-

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

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

Query:-

```
select pizza_types.name,  
sum(order_details.quantity) as quantity  
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 quantity desc limit 5;
```

Output:-

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

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

Query:-

```
select pizza_types.category,  
sum(order_details.quantity) as quantity  
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 quantity desc;
```

Output:-

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

Query:-

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

Output:-

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

Query:-

```
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;
```

Output:-

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

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

Query:-

```
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;
```

Output:-

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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

Query:-

```
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
```

Output:-

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	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75