



PROJECT ON PIZZASALES ANALYSIS USING SQL

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1. Retrieve the total number of orders placed.

SQL QUERY:

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

RESULT:

Result Grid	
	total_orders
▶	21350

2. Calculate the total revenue generated from pizza sales.

SQL QUERY:

```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2) AS total_sales  
FROM  
    order_details  
    JOIN  
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

RESULT:

Result Grid	
	total_sales
▶	817860.05

3. Identify the highest-priced pizza.

SQL 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;
```

RESULT:

Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95

4. Identify the most common pizza size ordered.

SQL 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
LIMIT 1;
```

RESULT:

	size	order_count
▶	L	18526

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

SQL 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;
```

RESULT:

	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.

SQL 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;
```

RESULT:

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

SQL QUERY:

```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

RESULT:

	hour	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

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

SQL QUERY:

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

RESULT:

	category	count
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

9. Group the orders by date and calculate the average number of pizzas ordered per day.

SQL QUERY:

```
SELECT  
    ROUND(AVG(order_count), 0) AS average_pizza_ordered_per_day  
FROM  
    (SELECT  
        orders.order_date,  
        SUM(order_details.quantity) AS order_count  
    FROM  
        orders  
    JOIN order_details ON orders.order_id = order_details.order_id  
    GROUP BY orders.order_date) AS order_quantity;
```

RESULT:

Result Grid	
	average_pizza_ordered_per_day
▶	138

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

SQL QUERY:

```
SELECT
    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.name
ORDER BY revenue DESC
LIMIT 3;
```

RESULT:

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

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

SQL QUERY:

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
        2)
    )
    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;
```

RESULT:

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

12. Analyze the cumulative revenue generated over time.

SQL QUERY:

```
select order_date,  
sum(revenue) over(order by order_date) as cum_revenue  
from  
(select orders.order_date,  
sum(order_details.quantity * pizzas.price) as revenue  
from order_details join pizzas  
on pizzas.pizza_id = order_details.pizza_id  
join orders  
on orders.order_id = order_details.order_id  
group by orders.order_date) as sales;
```

RESULT:

order_date	cum_revenue
2015-01-01	2713.8500000000004
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
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7

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

SQL QUERY:

```
select name,revenue from
(select category,name,revenue,
rank() over(partition by category order by revenue) 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 b
where rn <=3;
```

RESULT:

	name	revenue
▶	The Chicken Pesto Pizza	16701.75
	The Chicken Alfredo Pizza	16900.25
	The Southwest Chicken Pizza	34705.75
	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
	The Big Meat Pizza	22968
	The Napolitana Pizza	24087
	The Brie Carre Pizza	11588.49999999999
	The Spinach Supreme Pizza	15277.75
	The Calabrese Pizza	15934.25
	The Green Garden Pizza	13955.75
	The Mediterranean Pizza	15360.5
	The Spinach Pesto Pizza	15596



LARANA PIZZA

THANK YOU!

