



SQL PROJECT ON PIZZA SALES

AGENDA

- 1- Retrieve the total number of orders placed.
- 2- Calculate the total revenue generated from pizza sales.
- 3- Identify the highest-priced pizza.
- 4- Identify the most common pizza size ordered.
- 5- List the top 5 most ordered pizza types along with their qualities
- 6- Join the necessary tables to find the total quantity of each pizza category ordered.
- 7- Determine the distribution of orders by hour of the day.
- 8- Join relevant tables to find the category-wise distribution of pizzas.
- 9- Group the orders by date and calculate the average number of pizzas ordered per day.
- 10- Determine the top 3 most ordered pizza types based on revenue.
- 11- Calculate the percentage contribution of each pizza type to total revenue.
- 12- Analyze the cumulative revenue generated over time.
- 13- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retrieve the total number of orders placed.

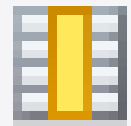
```
SELECT
```

```
    COUNT(order_id) AS total_order_placed
```

```
FROM
```

```
orders;
```

Result Grid



	total_order_placed
▶	21350

```
-- --question 2- Calculate the total revenue generated from pizza sales.
```

```
SELECT
```

```
    ROUND(SUM(orders_details.quantity * pizzas.price),  
          2) AS total_sales
```

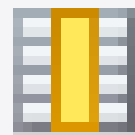
```
FROM
```

```
    orders_details
```

```
    JOIN
```

```
    pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```

Result Grid



	total_sales
▶	817860.05

```
-- question 3- Identify the highest-priced pizza.
```

```
SELECT
```

```
    pizza_types.name, pizzas.price
```

```
FROM
```

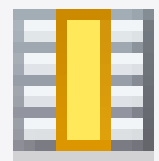
```
    pizza_types
```

```
    JOIN
```

```
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

```
ORDER BY pizzas.price DESC limit 1;
```

Result Grid



Filter Rows

	name	price
▶	The Greek Pizza	35.95



```
-- question 4 - Identify the most common pizza size ordered.

SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) as order_count
FROM
    pizzas
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC limit 1;
```

Result Grid			Filter
	size	order_count	
▶	L	18526	

```

2      -- question-5 - List the top 5 most ordered pizza types along with their quantities.
3
4  ●   SELECT
5         pizza_types.name, SUM(orders_details.quantity) AS quantity
6     FROM
7         pizza_types
8         JOIN
9         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10        JOIN
11        orders_details ON orders_details.pizza_id = pizzas.pizza_id
12     GROUP BY pizza_types.name
13     ORDER BY quantity DESC
14     LIMIT 5;

```

<

Result Grid

Filter Rows:

Export:


Wrap Cell Content:

Fetch rows:

	name	quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418

```
1      -- question 6- Join the necessary tables to find the total quantity of each pizza category ordered.
2
3      SELECT
4          pizza_types.category,
5          SUM(orders_details.quantity) AS quantity
6      FROM
7          pizza_types
8          JOIN
9          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10         JOIN
11         orders_details ON orders_details.pizza_id = pizzas.pizza_id
12     GROUP BY pizza_types.category
13     ORDER BY quantity DESC;
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	category	quantity
	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050


```
-- question 7- Determine the distribution of orders by hour of the day.
```

```
SELECT
```

```
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
```

```
FROM
```

```
    orders
```

```
GROUP BY HOUR(order_time);
```




Result Grid



Fit

	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
	23	28
	10	8
	9	1

```
1      -- question 8 - Join relevant tables to find the category-wise distribution of pizzas.
2
3  ●    SELECT
4          category, COUNT(name)
5  FROM
6          pizza_types
7  GROUP BY category;
```

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

	category	COUNT(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

```
1
2  -- question 9 Group the orders by date and calculate the average
3  -- number of pizzas ordered per day.
4
5  ●  SELECT
6      ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
7  FROM
8      (SELECT
9          orders.order_date, SUM(orders_details.quantity) AS quantity
10         FROM
11             orders
12         JOIN orders_details ON orders.order_id = orders_details.order_id
13         GROUP BY orders.order_date) AS order_quantity;
```



Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	avg_pizza_ordered_per_day
▶	138

```
1  -- question 10- Determine the top 3 most ordered pizza types based on revenue.
2
3  ●  SELECT
4      pizza_types.name,
5      SUM(orders_details.quantity * pizzas.price) AS revenue
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
10     JOIN
11     orders_details ON orders_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.name
13 ORDER BY revenue DESC
14 LIMIT 3;
```


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

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

```

2  -- question 11- Calculate the percentage contribution of each pizza type to total revenue.
3
4  ●  SELECT
5      pizza_types.category,
6      round(SUM(orders_details.quantity * pizzas.price) /
7      (select
8      round(SUM(orders_details.quantity * pizzas.price),2) as total_sales
9  FROM
10     orders_details
11         JOIN
12     pizzas ON pizzas.pizza_id = orders_details.pizza_id) *100,2) as revenue
13     from pizza_types
14         JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
15         join orders_details
16     on orders_details.pizza_id = pizzas.pizza_id
17     GROUP BY pizza_types.category

```

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

	category	revenue
	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

-- question 12 - Analyze the cumulative revenue generated over time.

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

Result Grid



Filter Rows:

	order_date	cum_revenue
	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65

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

```
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((orders_details.quantity)*pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <= 3;
```

Result Grid			Filter Rows:
	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	



THANK YOU