

SQL PROJECT FOR PIZZA'S SALES



Start Your Slide



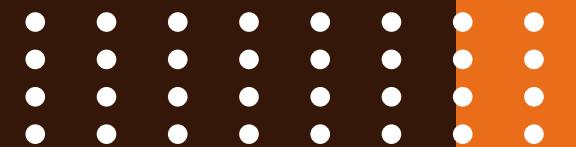


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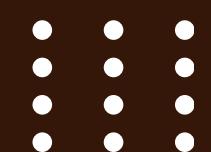
In this project I have utilize SQL query to solve this question related to pizza sales.



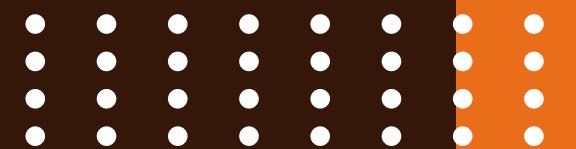
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



```
select count(orders.order_id) as total_order from orders
```

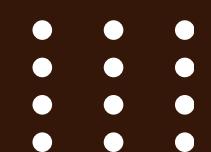


CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



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

	Total revenue
▶	817860.05



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;
```

Name	Price
The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    pizzas.size,
    COUNT(order_details.pizza_id) AS total_pizza_size_order
FROM
    pizzas
JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
    GROUP BY pizzas.size
    ORDER BY total_pizza_size_order DESC
    LIMIT 1
```

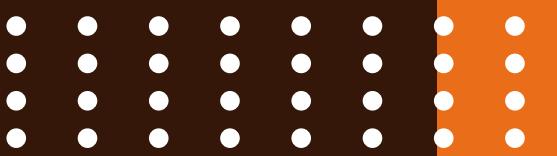
	size	total_pizza_size_order
	L	18526

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS
        total_pizza_type_order
    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 total_pizza_type_order DESC
    LIMIT 5
```

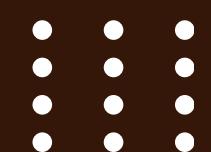
	name	total_pizza_ty
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.



```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS
        category_order
    FROM
        pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id =
            pizzas.pizza_type_id
    JOIN
        order_details ON pizzas.pizza_id =
            order_details.pizza_id
    GROUP BY pizza_types.category
    ORDER BY category_order DESC
```

	Category	category_order
	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR QF THE DAY

```
select hour(order_time),count(orders.order_id)  
      from orders  
group by hour(orders.order_time)
```

	hour(order_time)	count(orders.order_id)
11	1231	
12	2520	
13	2455	
14	1472	
15	1468	
16	1920	
17	2336	
18	2399	
19	2009	
20	1642	

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
SELECT  
ROUND(AVG(quantity), 2)  
FROM  
(SELECT  
(order_date), SUM(order_details.quantity)  
AS quantity  
FROM  
orders  
JOIN order_details ON orders.order_id =  
order_details.order_id  
GROUP BY (order_date)) AS order_quantity
```

ROUND(AVG(quantity), 2)
138.47

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity)
        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
```

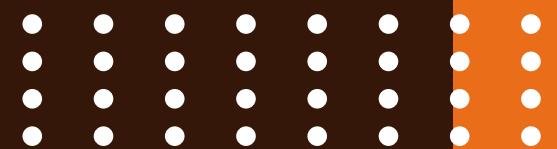
name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT  
    pizza_types.category,  
ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT  
        SUM(order_details.quantity * pizzas.price)  
    FROM  
        order_details  
    JOIN  
        pizzas ON order_details.pizza_id = pizzas.pizza_id) *  
        100,  
    2) AS percentage  
    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 percentage DESC
```

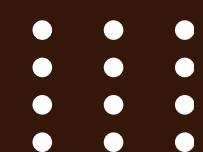
Category	percentage
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

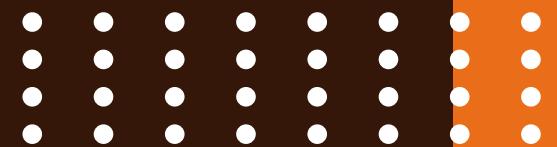


```
select order_date,sum(revenue) over(order by order_date) as
      cum_revenue
        from
          (select orders.order_date,
                  sum(order_details.quantity*pizzas.price) as revenue from
                    orders
                join order_details on orders.order_id=order_details.order_id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

	order_date	cum_revenue
▶	2015-01-01	2713.85000000
	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



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) as rn
from
(select
pizza_types.category,pizza_types.name,round(sum(order_details.quantity*pi
zzas.price),2) as revenue
from pizza_types join pizzas on
pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details on pizzas.pizza_id = order_details.pizza_id
group by pizza_types.category, pizza_types.name) as b
where rn<=3
```

	category	name	revenue
:	Chicken	The Chicken Pesto Pizza	16701.75
:	Chicken	The Chicken Alfredo Pizza	16900.25
:	Chicken	The Southwest Chicken Pizza	34705.75
⋮	Classic	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
⋮	Classic	The Big Meat Pizza	22968
⋮	Classic	The Napolitana Pizza	24087

THANK YOU



My Linkedin link

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Pizza Sales Presentation

