




Delicious
PIZZA





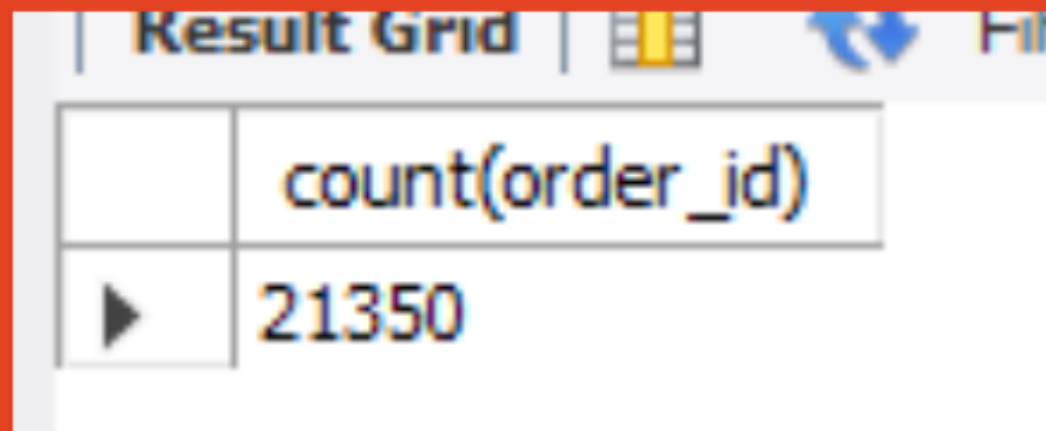
Hello

My name is Vaibhav Nalawade
In this project I have Utilized to
solve a quations that related to
pizza sales



Retrieve the total number of orders placed.

- `select count(order_id) from orders;`



A screenshot of a database application's 'Result Grid' window. The window has a title bar with 'Result Grid' and some icons. Below the title bar is a table with two rows. The first row has a header 'count(order_id)'. The second row has a value '21350' preceded by a small black triangle icon.

	count(order_id)
▶	21350

Calculate the total revenue generated from pizza sales.

```
• 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 Grid	
	total_sales
▶	817860.05

Identify most priced pizza

```
3 • SELECT
4     pizza_types.name, pizzas.price
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9 ORDER BY price DESC
10 LIMIT 1;
```

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
3 • SELECT
4     pizzas.size, COUNT(order_details.order_details_id) AS count
5 FROM
6     pizzas
7     JOIN
8     order_details ON pizzas.pizza_id = order_details.pizza_id
9 GROUP BY pizzas.size
10 ORDER BY count DESC;
```

▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

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

```
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;
```

	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

join the necessary tables to find the total quantity of each pizza category

```
SELECT
    pizza_types.category, count(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;
```

	category	quantity
▶	Classic	14579
	Supreme	11777
	Veggie	11449
	Chicken	10815

Determine the distribution of orders by hour of the day.

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

hour(order_time)	count(order_
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

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

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

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

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

```
SELECT  
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day  
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;
```

	avg_pizza_ordered_per_day
▶	138

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

```
SELECT
    pizza_types.name, sum(order_details.quantity * pizzas.price) 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 3;
```

	name	quantity
►	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Calculate the Percentage of contribution of each pizza type to total Revenue

```
select pizza_types.category,  
(sum(order_details.quantity * pizzas.price) / (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))*100 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;
```

	category	Revenue
▶	Classic	26.90596025566967
	Supreme	25.45631126009862
	Chicken	23.955137556847287
	Veggie	23.682590927384577

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 order_details join pizzas on  
order_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = order_details.order_id  
group by orders.order_date) sales;
```


	order_date	cum_revenue
►	2015-01-01	2713.8500000000000004
	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

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((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;
```

	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
	The Five Cheese Pizza	26066.5

Thank You