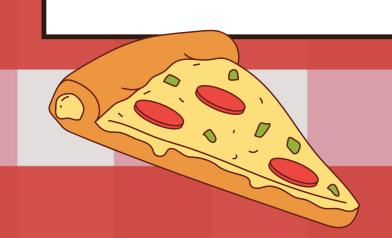
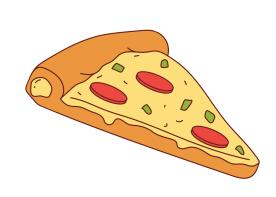
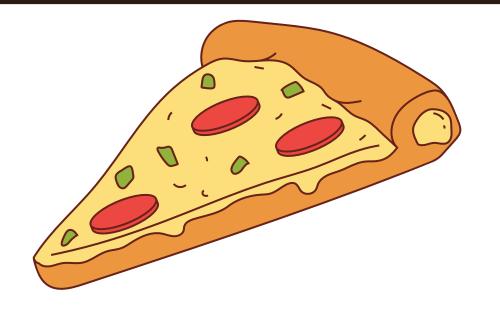


SQL PROJECT PIZZA COMAPNY

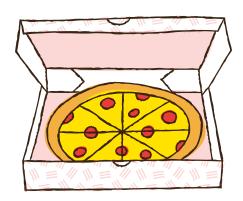




About

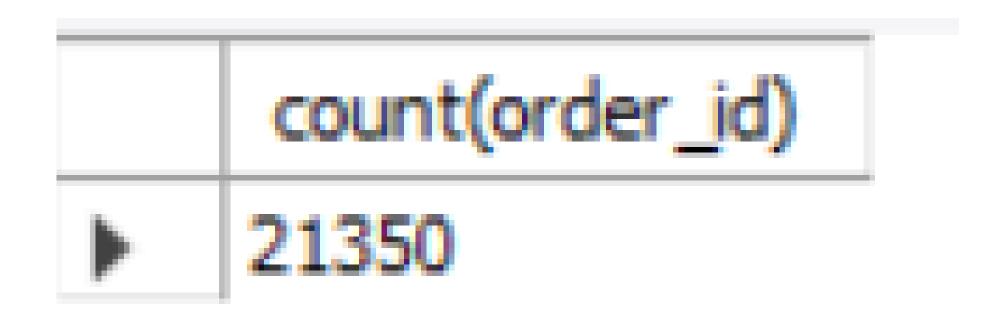


Hi, my name is Badullah Ali. This is my SQL project, where I work with a dataset from a pizza company. The dataset consists of four tables, and I have addressed various questions categorized into three levels: basic, intermediate, and advanced.



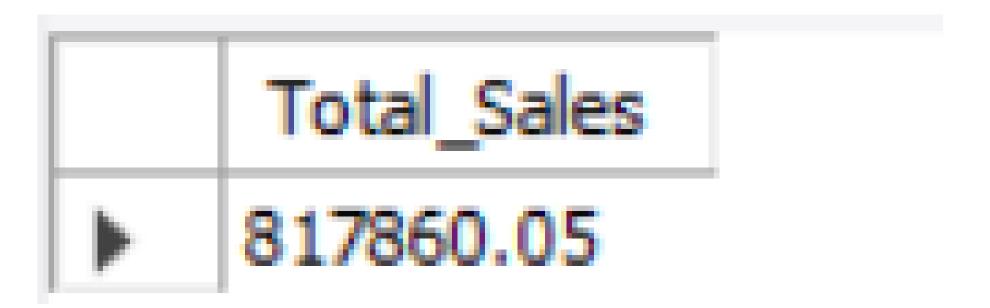
Retrieve the total number of orders placed.

```
select count(order_id)
from orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT round (sum(quantity * price),2) as Total_Sales
FROM order_details AS od
JOIN pizzas AS pi
ON od.pizza_id = pi.pizza_id;
```



Identify the highest-priced pizza.

```
Code
```

```
SELECT pizza_types.name AS pizza_type, --
    pizzas.price AS pizza_price
FROM pizza_types
JOIN pizzas
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizza_price desc
limit 1;
```

	pizza_type	pizza_price
•	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
Code
```

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

	size	order_count
•	L	18526

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

Code

```
SELECT pizzas.pizza_type_id, pizza_types.name AS pizza_type,COUNT(order_details.quantity) AS order_count FROM order_details

JOIN pizzas

ON order_details.pizza_id = pizzas.pizza_id

JOIN pizza_types
```

ON pizzas.pizza_type_id = pizza_types.pizza_type_id -- Join based on pizza_type_id

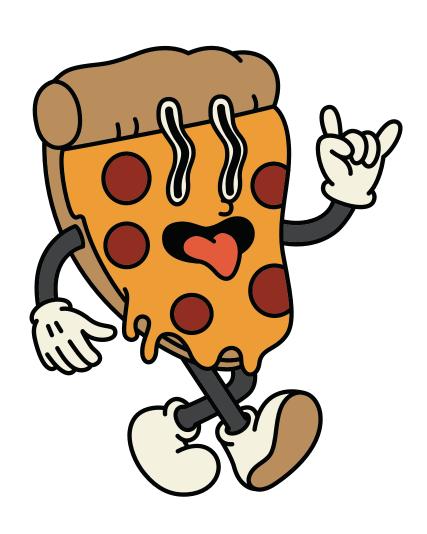
GROUP BY pizzas.pizza_type_id, pizza_types.name

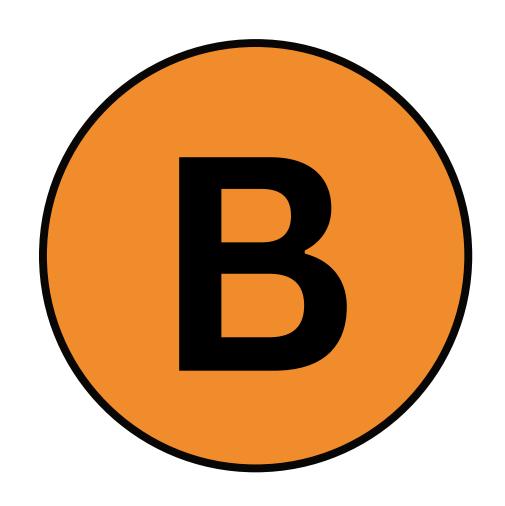
ORDER BY order_count DESC

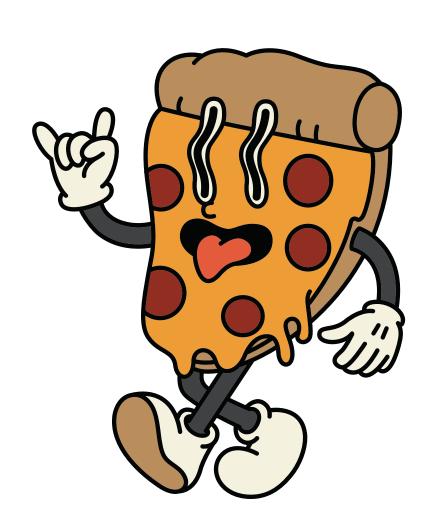
LIMIT 5;

	pizza_type_id	pizza_type	order_count
•	dassic_dlx	The Classic Deluxe Pizza	2416
	bbq_ckn	The Barbecue Chicken Pizza	2372
	hawaiian	The Hawaiian Pizza	2370
	pepperoni	The Pepperoni Pizza	2369
	thai_ckn	The Thai Chicken Pizza	2315

Intermediate







Determine the distribution of orders by hour of the day.

Code

select hour(order_time),count(order_id) as orders from orders group by hour(order_time) order by orders desc

	hour(order_time)	orders
•	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1

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

```
SELECT pizza_types.category, SUM(order_details.quantity) AS total_orders
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 -- Join on pizza ID
GROUP BY pizza_types.category
ORDER BY total_orders DESC;
```

	category	total_orders
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

```
select 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.

```
Code
 SELECT AVG(quantity)
 FROM
   SELECT orders.order_data, sum(order_details.quantity) AS quantity
   FROM orders
   JOIN order details
   ON order_details.order_id = orders.order_id
   GROUP BY orders.order_data
 ) AS order_data;
                                       AVG(quantity)
```

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

Code

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

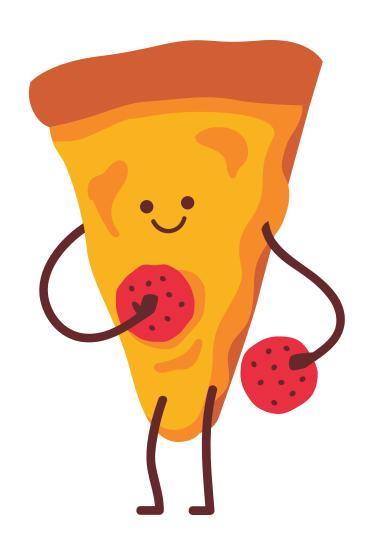
GROUP BY pizza_types.name

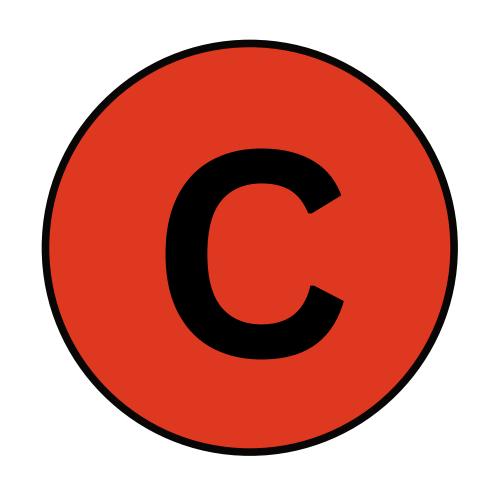
ORDER BY rev DESC

LIMIT 3;

	name	rev
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Advanced







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

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

	category	rev_percentage
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time.

```
SELECT
  order_data,
  SUM(rev) OVER (ORDER BY order_data) AS cumulative_rev
FROM
  SELECT
     orders.order_data,
     SUM(order_details.quantity * pizzas.price) AS rev
  FROM
     orders
  JOIN
     order details ON orders.order id = order details.order id
  JOIN
     pizzas ON order_details.pizza_id = pizzas.pizza_id
  GROUP BY
     orders.order data
  ) AS sales;
```

```
2015-01-19
             43365,75000000001
2015-01-20
             45763.65000000001
2015-01-21
             47804.20000000001
2015-01-22
             50300.90000000001
2015-01-23
             52724.6000000000006
2015-01-24
             55013.8500000000006
2015-01-25
             56631,40000000001
             58515.80000000001
2015-01-26
2015-01-27
             61043.85000000001
2015-01-28
             63059.85000000001
2015-01-29
             65105, 1500000000016
             67375.45000000001
2015-01-30
2015-01-31
             69793.30000000002
             72982.50000000001
2015-02-01
2015-02-02
             75311.100000000002
2015-02-03
             77925.90000000002
```

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

```
SELECT name, rev
FROM
  SELECT
     name,
     rev,
     RANK() OVER (PARTITION BY category ORDER BY rev DESC) AS 'rank'
  FROM
     SELECT
       pizza_types.category,
       pizza_types.name,
       SUM(order_details.quantity * pizzas.price) AS rev
     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 `rank` >= 3;
```

	name	rev
•	The California Chicken Pizza	41409.5
	The Southwest Chicken Pizza	34705.75
	The Chicken Alfredo Pizza	16900.25
	The Chicken Pesto Pizza	16701.75
	The Pepperoni Pizza	30161.75
	The Greek Pizza	28454.100000000013
	The Italian Capocollo Pizza	25094
	The Napolitana Pizza	24087
	The Big Meat Pizza	22968
	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
	The Sicilian Pizza	30940.5
	The Pepper Salami Pizza	25529
	The Prosciutto and Arugula Pizza	24193.25
	The Soppressata Pizza	16425.75
	The Calabrese Pizza	15934.25
	The Spinach Supreme Pizza	15277.75

THANKYOU

