



PIZZA SALES

Presentation by Sachin Singh







Retrieve the total number of orders placed.



```
3 SELECT COUNT(order_id) AS total_orders
4 FROM orders
5
```



Results		Messages
	total_orders	
1	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 pizzas.pizza_id = order_details.pizza_id ;
```



Results		Messages	
	total_sales		
1	817860.05		



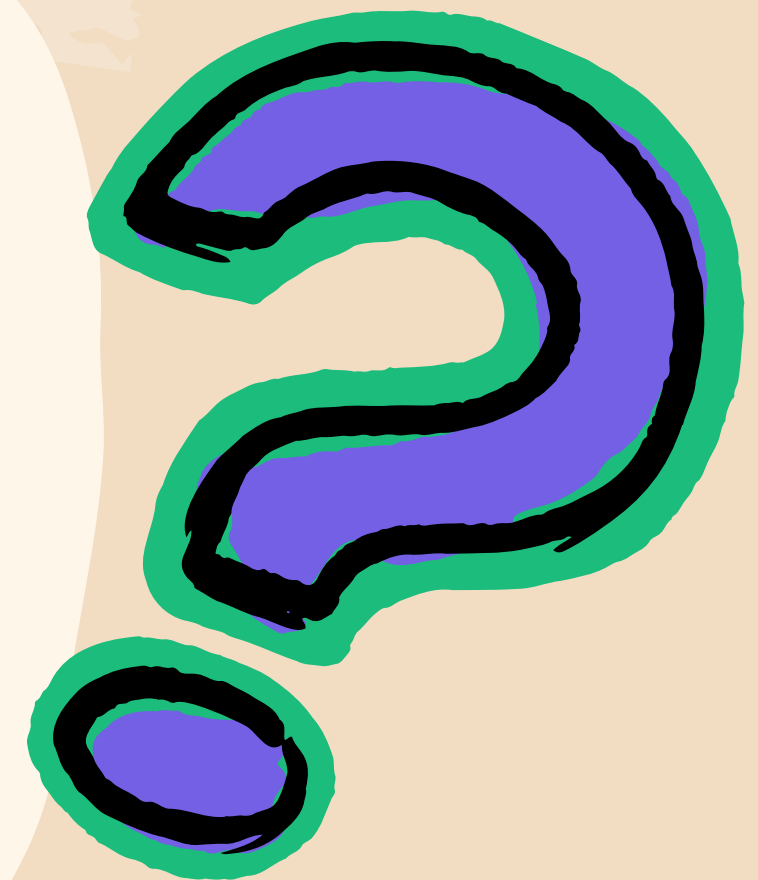


Identify the highest-priced pizza.



```
4 SELECT TOP (1) pizza_types.name, pizzas.price
5 FROM pizza_types
6     INNER JOIN
7     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8 ORDER BY pizzas.price DESC
```

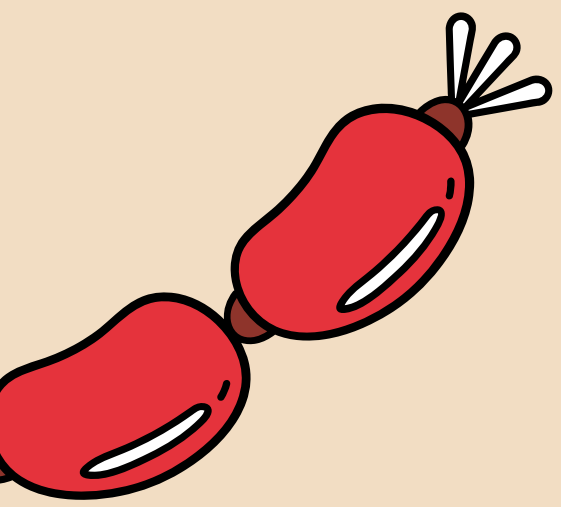
Results			Messages		
	name	price			
1	The Greek Pizza	35.95			



Identify the most common pizza size ordered.

```
3 SELECT pizzas.size, COUNT(order_details.order_details_id) AS order_count
4 FROM pizzas
5     INNER JOIN
6     order_details ON pizzas.pizza_id = order_details.pizza_id
7 GROUP BY pizzas.size
```

	Results	Messages
	size	order_count
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28




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

```
3 SELECT TOP (5) pizza_types.name, SUM(order_details.quantity) AS quantity
4 FROM pizza_types
5     INNER JOIN
6     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
7     INNER JOIN
8     order_details ON order_details.pizza_id = pizzas.pizza_id
9 GROUP BY pizza_types.name
10 ORDER BY quantity DESC
```

Results			Messages
	name	quantity	
1	The Classic Deluxe Pizza	2453	
2	The Barbecue Chicken Pizza	2432	
3	The Hawaiian Pizza	2422	
4	The Pepperoni Pizza	2418	
5	The Thai Chicken Pizza	2371	



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



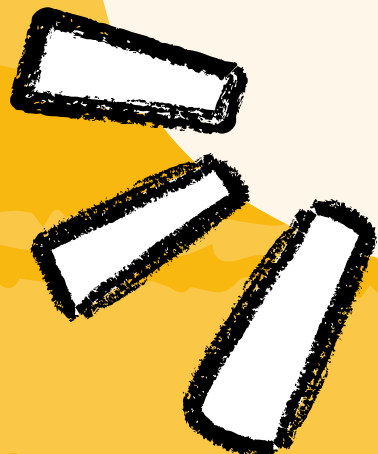
```
3 select pizza_types.category, sum(order_details.quantity) as quantity
4 from pizza_types
5         join
6         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
7         JOIN
8         order_details ON order_details.pizza_id = pizzas.pizza_id
9 GROUP BY pizza_types.category
10 ORDER BY quantity DESC
```

Results		Messages
	category	quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

Determine the distribution of orders by hour of the day.

```
3 SELECT DATEPART(HOUR, order_time) AS order_hour, COUNT(order_id) AS order_count
4 FROM orders
5 GROUP BY DATEPART(HOUR, order_time)
6 ORDER BY DATEPART(HOUR, order_time);
7
```

	order_hour	order_count
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336





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



```
3 SELECT category, COUNT(name) AS name_count
4 FROM pizza_types
5 GROUP BY category
```

	category	name_count
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9



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

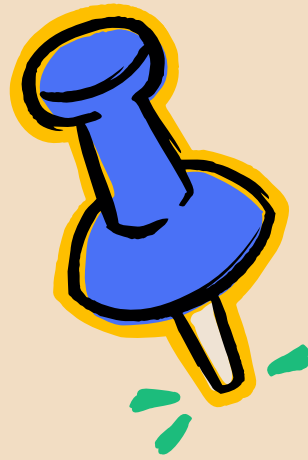
```
6 SELECT AVG(quantity) AS avg_pizzas_ordered_perday
7 FROM (SELECT orders.order_date, SUM(order_details.quantity) AS quantity
8       FROM orders
9       INNER JOIN
10        order_details ON orders.order_id = order_details.order_id
11        GROUP BY orders.order_date) AS order_quantity
```



Results		Messages	
avg_pizzas_ordered_perday			
1	138		

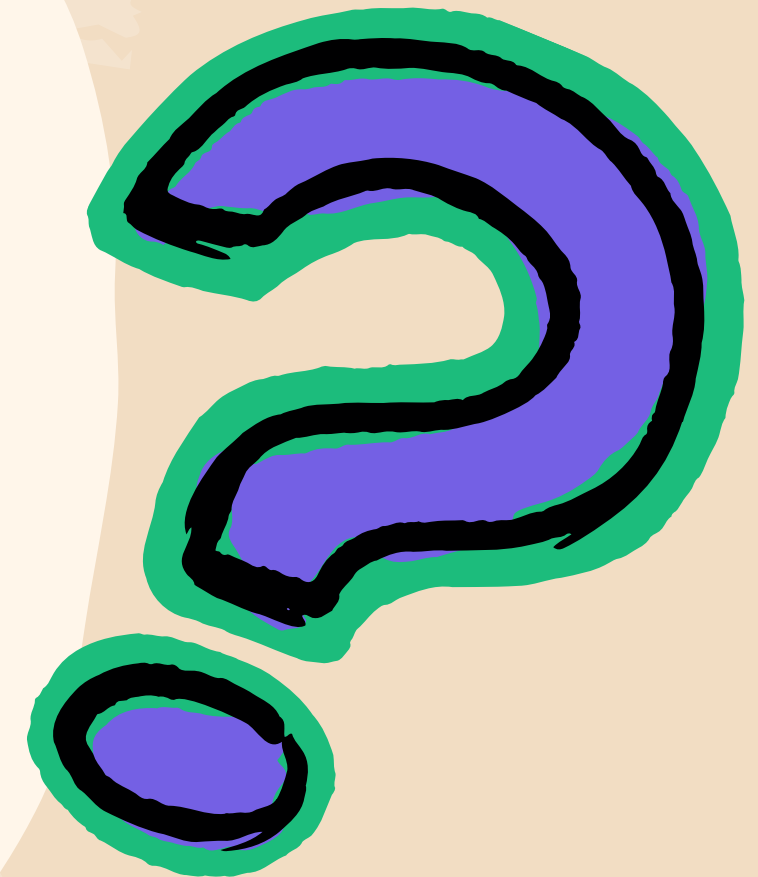


Determine the top 3 most ordered pizza types based on revenue.



```
3 SELECT TOP (3) pizza_types.name, SUM(order_details.quantity * pizzas.price) AS revenue
4 FROM pizza_types
5     INNER JOIN
6         pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
7     INNER JOIN
8         order_details ON order_details.pizza_id = pizzas.pizza_id
9 GROUP BY pizza_types.name
10 ORDER BY revenue DESC
```


Results			Messages		
	name	revenue			
1	The Thai Chicken Pizza	43434.25			
2	The Barbecue Chicken Pizza	42768			
3	The California Chicken Pizza	41409.5			



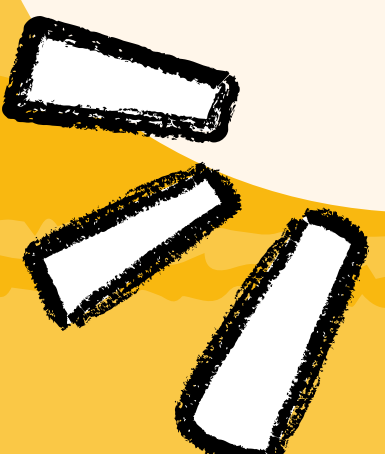


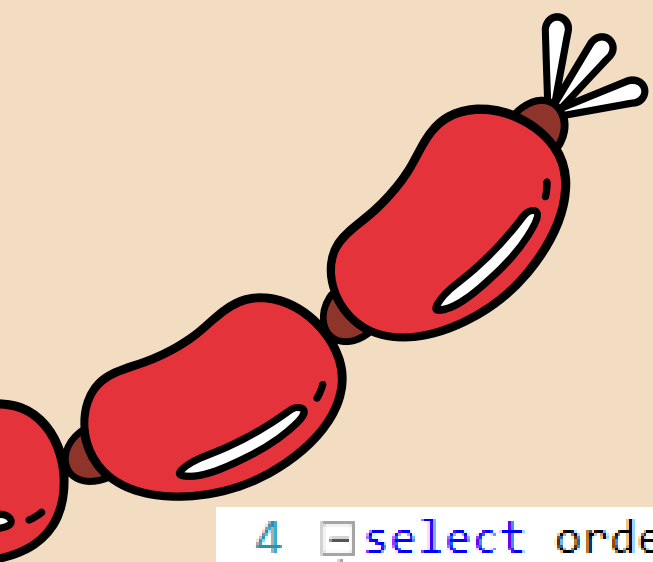
Calculate the percentage contribution of each pizza type to total revenue.

```
5 SELECT pizza_types.category,  
6 ROUND(SUM(order_details.quantity * pizzas.price) /  
7       (SELECT ROUND(SUM(order_details.quantity * pizzas.price), 2) AS total_sales  
8         FROM order_details  
9         INNER JOIN  
10          pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100, 2) AS revenue  
11 FROM pizza_types  
12     INNER JOIN  
13      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
14     INNER JOIN  
15      order_details ON order_details.pizza_id = pizzas.pizza_id  
16 GROUP BY pizza_types.category  
17 ORDER BY revenue DESC
```



	category	revenue
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68





Analyze the cumulative revenue generated over time.

```
4 select order_date ,
5     sum(revenue) over(order by order_date) as cum_revenue
6 from
7     (select orders.order_date , sum(order_details.quantity * pizzas.price) as revenue
8     from order_details
9      join
10      pizzas on order_details.pizza_id = pizzas.pizza_id
11      join
12      orders on orders.order_id = order_details.order_id
13      group by orders.order_date) sales ;
```

	order_date	cum_revenue
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55
6	2015-01-06	14358.5
7	2015-01-07	16560.7
8	2015-01-08	19399.05
9	2015-01-09	21526.4
10	2015-01-10	23990.35
11	2015-01-11	25862.65



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

```
3 select name, revenue from
4     (select category , name , revenue , rank() over (partition by category order by revenue desc) as rankings
5      from
6        (select  pizza_types.category , pizza_types.name ,
7                sum((order_details.quantity) * pizzas.price ) as revenue
8         from pizza_types
9         join
10          pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
11         join
12          order_details on order_details.pizza_id = pizzas.pizza_id
13          group by pizza_types.category , pizza_types.name) as A) as B
14 where rankings <= 3;
```

Results			Messages		
	name	revenue			
1	The Thai Chicken Pizza	43434.25			
2	The Barbecue Chicken Pizza	42768			
3	The California Chicken Pizza	41409.5			
4	The Classic Deluxe Pizza	38180.5			
5	The Hawaiian Pizza	32273.25			
6	The Pepperoni Pizza	30161.75			
7	The Spicy Italian Pizza	34831.25			
8	The Italian Supreme Pizza	33476.75			
9	The Sicilian Pizza	30940.5			
10	The Four Cheese Pizza	32265.70000000006			
11	The Mexicana Pizza	26780.75			
12	The Five Cheese Pizza	26066.5			

Thank You!

