

-- KPI 6 -- List the top 5 most ordered pizza types -- along with their quantities.

SELECT TOP 5 name,SUM(quantity) AS Total\_Quantity
FROM [dbo].[pizzas] AS a

JOIN [dbo].[order\_details] AS b

ON a.pizza\_id=b.pizza\_id

JOIN [dbo].[pizza\_types] AS c

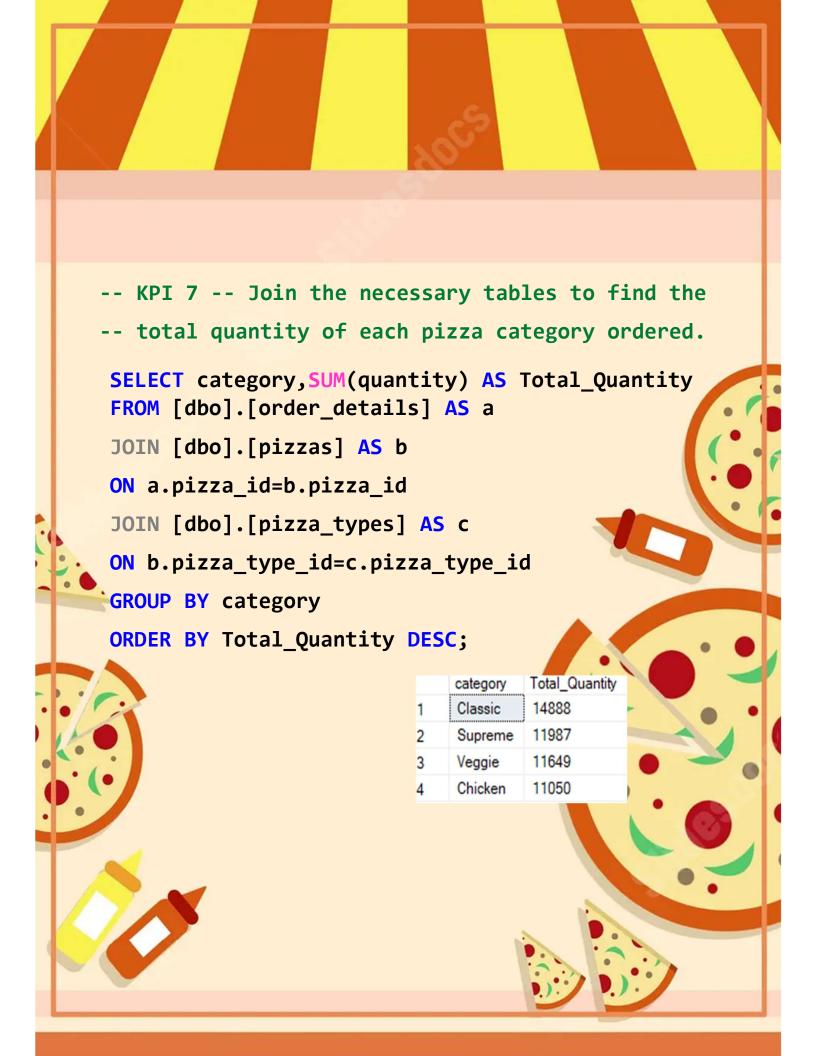
ON a.pizza\_type\_id=c.pizza\_type\_id

**GROUP BY** name

ORDER BY Total\_Quantity DESC;



	name	Total_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



-- KPI 8 -- Determine the distribution of orders by hour of the day

SELECT DATEPART(HOUR, time) AS Hour, COUNT(order\_id)

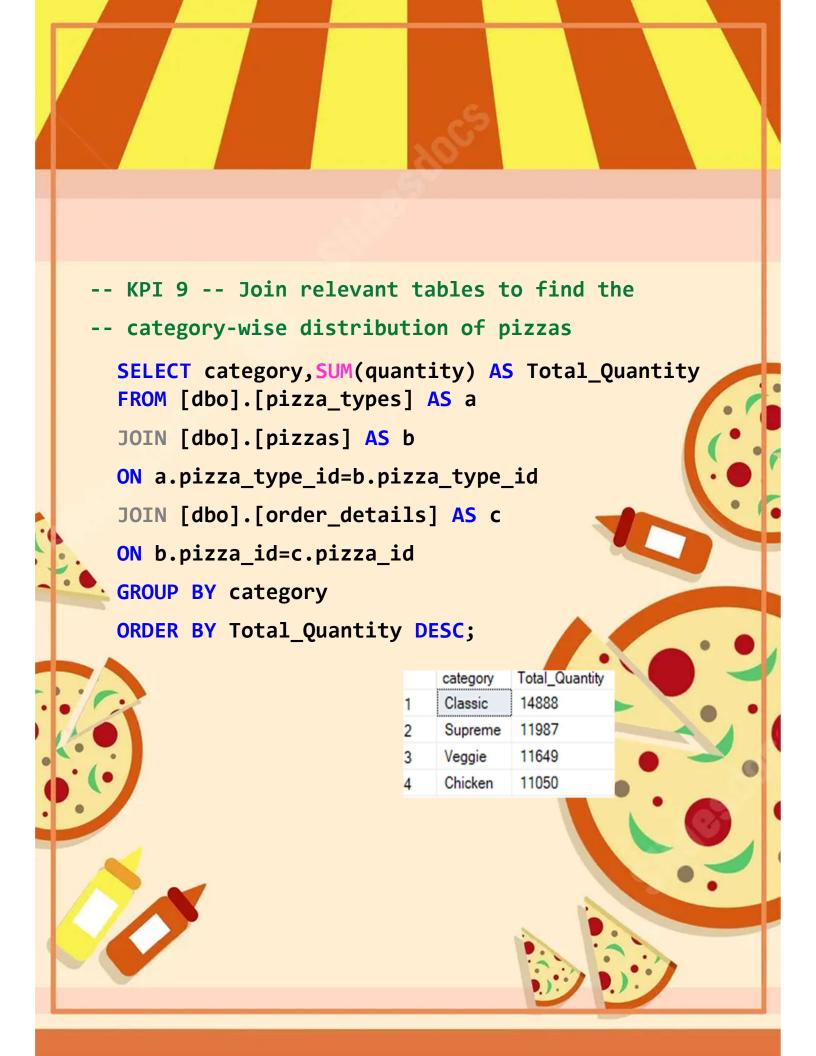
AS Orders FROM [dbo].[orders]

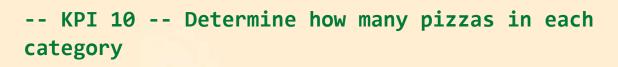
GROUP BY DATEPART(HOUR, time)

**ORDER BY Orders DESC;** 

	Hour	Orders	
1	12	2520	
2	13	2455	
3	18	2399	
4	17	2336	
5	19	2009	
6	16	1920	
7	20	1642	1
8	14	1472	
9	15	1468	
10	11	1231	
11	21	1198	
12	22	663	
13	23	28	
14	10	8	
15	9	1	







SELECT category,COUNT(pizza\_id) AS Total\_pizzas

FROM [dbo].[pizza\_types] AS a

JOIN [dbo].[pizzas] AS b

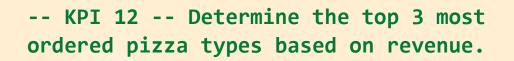
ON a.pizza\_type\_id=b.pizza\_type\_id

**GROUP BY** category

ORDER BY Total\_pizzas DESC;

	category	Total_pizzas
1	Veggie	27
2	Classic	26
3	Supreme	25
4	Chicken	18

```
-- KPI 11 -- Group the orders by date and
  calculate the average number of pizzas
ordered per day.
 SELECT AVG(Total_Quantity) AS
Avg_Pizza_Per_Day FROM
 SELECT SUM(quantity) AS Total_Quantity FROM
 [dbo].[order_details]
 JOIN [dbo].[orders]
 ON
 [dbo].[order_details].order_id=[dbo].[orders]
 .order_id
 GROUP by date) AS t;
                           Avg_Pizza_Per_Day
                           138
                       1
```



SELECT TOP 3 name, SUM(quantity \* price) AS
Total\_Revenue FROM [dbo].[order\_details] AS a

JOIN [dbo].[pizzas] AS b

ON a.pizza\_id=b.pizza\_id

JOIN [dbo].[pizza\_types] AS c

ON c.pizza\_type\_id=b.pizza\_type\_id

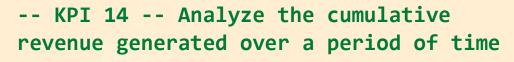
**GROUP BY** name

ORDER BY Total\_Revenue DESC;

	name	Total_Revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5



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KPI 13 -- Calculate the percentage
contribution of each pizza type to total revenue.
SELECT category,ROUND(SUM(quantity * price)/
(SELECT ROUND(SUM(quantity * price),2) FROM
[dbo].[order_details] AS a
JOIN [dbo].[pizzas] AS b
ON a.pizza_id=b.pizza_id )* 100 ,2) AS Percentage
FROM [dbo].[order_details] AS a
JOIN [dbo].[pizzas] AS b
ON a.pizza id=b.pizza id
WIN [dbo].[pizza_types] AS c
ON c.pizza_type_id=b.pizza_type_id
TROUP BY category
ORDER BY percentage DESC;
                                     Percentage
                             category
                                     26.91
                             Classic
                        1
                             Supreme
                        2
                                     25.46
                             Chicken
                        3
                                     23.96
                             Veggie
                                      23.68
```



SELECT date,SUM(Revenue) OVER (ORDER BY
date) AS Cum\_Revenue FROM

(SELECT date,ROUND(SUM(quantity \* price),2)
AS Revenue FROM [dbo].[order\_details] AS a

JOIN [dbo].[pizzas] AS b

ON a.pizza\_id=b.pizza\_id

JOIN orders AS c

ON a.order\_id=c.order\_id

GROUP BY date) AS t;

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	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
12	2015-01-12	27781.7
13	2015-01-13	29831.3
14	2015-01-14	32358.7
15	2015-01-15	34343.5

-- KPI 15 -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

**SELECT** name, category, Revenue FROM

(SELECT name, category, Revenue, RANK() OVER(PARTITION BY category ORDER BY Revenue desc) AS rank FROM

(SELECT name, category, ROUND(SUM(quantity \*
price),2) AS Revenue FROM [dbo].[order\_details]
AS a

JOIN [dbo].[pizzas] AS b

ON a.pizza\_id=b.pizza\_id

JOIN [dbo].[pizza\_types] AS c

ON c.pizza\_type\_id=b.pizza\_type\_id

GROUP BY category, name) AS t) AS d

WHERE rank<=3;

	name	category	Revenue
1	The Thai Chicken Pizza	Chicken	43434.25
2	The Barbecue Chicken Pizza	Chicken	42768
3	The California Chicken Pizza	Chicken	41409.5
4	The Classic Deluxe Pizza	Classic	38180.5
5	The Hawaiian Pizza	Classic	32273.25
6	The Pepperoni Pizza	Classic	30161.75
7	The Spicy Italian Pizza	Supreme	34831.25
8	The Italian Supreme Pizza	Supreme	33476.75
9	The Sicilian Pizza	Supreme	30940.5
10	The Four Cheese Pizza	Veggie	32265.7
11	The Mexicana Pizza	Veggie	26780.75
12	The Five Cheese Pizza	Veggie	26066.5

