

Pizza Sales Analysis Report

Using SQL

Queries

1. Show all the column from the pizza table

select * from pizza_sales;

Result Grid											
Filter Rows:											
Export: Wrap Cell Contents: Fetch rows:											
	pizza_id	order_id	pizza_name_id	quantity	order_date	order_time	unit_price	total_price	pizza_size	pizza_category	pizza_name
1	1	1	hawaiian_m	1	1/1/2015	11:38:36	13.25	13.25	M	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
2	2	2	classic_dlx_m	1	1/1/2015	11:57:40	16	16	M	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
3	2	2	five_cheese_l	1	1/1/2015	11:57:40	18.5	18.5	L	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked ...
4	2	2	ital_supr_l	1	1/1/2015	11:57:40	20.75	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
5	2	2	mexicana_m	1	1/1/2015	11:57:40	16	16	M	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Re...
6	2	2	thai_dcn_l	1	1/1/2015	11:57:40	20.75	20.75	L	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
7	3	3	ital_supr_m	1	1/1/2015	12:12:28	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
8	3	3	prsc_argla_l	1	1/1/2015	12:12:28	20.75	20.75	L	Supreme	Prosciutto di San Daniele, Arugula, Mozzarella C...
9	4	4	ital_supr_m	1	1/1/2015	12:16:31	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
10	5	5	ital_supr_m	1	1/1/2015	12:21:30	16.5	16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
11	6	6	bbq_dcn_s	1	1/1/2015	12:29:36	12.75	12.75	S	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
12	6	6	the_greek_s	1	1/1/2015	12:29:36	12	12	S	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garli...
13	7	7	spinach_supr_s	1	1/1/2015	12:50:37	12.5	12.5	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Art...
14	8	8	spinach_supr_s	1	1/1/2015	12:51:37	12.5	12.5	S	Supreme	Spinach, Red Onions, Pepperoni, Tomatoes, Art...
15	9	9	classic_dlx_s	1	1/1/2015	12:52:01	12	12	S	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
16	9	9	green_garden_s	1	1/1/2015	12:52:01	12	12	S	Veggie	Spinach, Mushrooms, Tomatoes, Green Olives, ...
17	9	9	ital_cpcllo_l	1	1/1/2015	12:52:01	20.5	20.5	L	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
18	9	9	ital_supr_l	1	1/1/2015	12:52:01	20.75	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
19	9	9	ital_supr_s	1	1/1/2015	12:52:01	12.5	12.5	S	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
20	9	9	mexicana_s	1	1/1/2015	12:52:01	12	12	S	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Re...

2. Retrive Pizza's with their name and their prices

select pizza_name , total_price

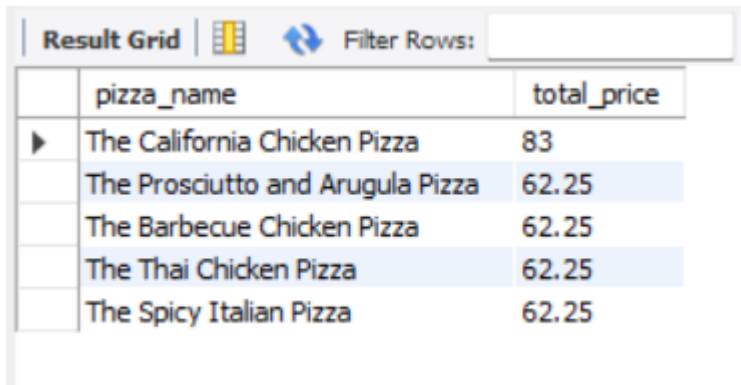
from pizza_sales;

Result Grid		
Filter Rows:		
	pizza_name	total_price
▶	The Hawaiian Pizza	13.25
	The Classic Deluxe Pizza	16
	The Five Cheese Pizza	18.5
	The Italian Supreme Pizza	20.75
	The Mexicana Pizza	16
	The Thai Chicken Pizza	20.75
	The Italian Supreme Pizza	16.5
	The Prosciutto and Arugula Pizza	20.75
	The Italian Supreme Pizza	16.5
	The Italian Supreme Pizza	16.5
	The Barbecue Chicken Pizza	12.75
	The Greek Pizza	12
	The Spinach Supreme Pizza	12.5
	The Spinach Supreme Pizza	12.5
	The Classic Deluxe Pizza	12
	The Green Garden Pizza	12
	The Italian Capocollo Pizza	20.5

pizza_sales 1 x

3. List top 5 most expensive pizza's

```
select  
    pizza_name , total_price  
from pizza_sales  
order by total_price desc  
limit 5;
```

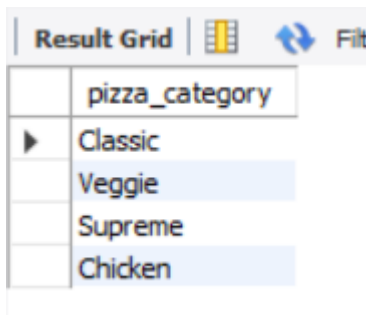


The screenshot shows a 'Result Grid' interface with a 'Filter Rows' button. The table displays the top 5 most expensive pizzas based on total price.

	pizza_name	total_price
▶	The California Chicken Pizza	83
	The Prosciutto and Arugula Pizza	62.25
	The Barbecue Chicken Pizza	62.25
	The Thai Chicken Pizza	62.25
	The Spicy Italian Pizza	62.25

4. Show the categories of the pizza

```
select DISTINCT pizza_category  
from pizza_sales;
```

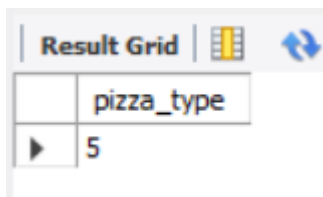


The screenshot shows a 'Result Grid' interface with a 'Filter' button. The table displays the distinct categories of pizzas.

	pizza_category
▶	Classic
	Veggie
	Supreme
	Chicken

5. Types of the pizza available in the table

```
select count(distinct pizza_size) as pizza_type  
from pizza_sales
```





The screenshot shows a 'Result Grid' interface with a 'Filter' button. The table displays the count of distinct pizza sizes.

	pizza_type
▶	5


6. calculate total revenue from all pizza sales.

```
select pizza_name, pizza_category,  
       SUM(total_price) as total_revenue  
from pizza_sales  
group by pizza_name, pizza_category  
order by total_revenue desc;
```

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap			
	pizza_name	pizza_category	total_revenue
▶	The Thai Chicken Pizza	Chicken	43434.25
	The Barbecue Chicken Pizza	Chicken	42768
	The California Chicken Pizza	Chicken	41409.5
	The Classic Deluxe Pizza	Classic	38180.5
	The Spicy Italian Pizza	Supreme	34831.25
	The Southwest Chicken Pizza	Chicken	34705.75
	The Italian Supreme Pizza	Supreme	33476.75
	The Hawaiian Pizza	Classic	32273.25
	The Four Cheese Pizza	Veggie	32265.70000000065
	The Sicilian Pizza	Supreme	30940.5
	The Pepperoni Pizza	Classic	30161.75
	The Greek Pizza	Classic	28454.100000000013
	The Mexicana Pizza	Veggie	26780.75
	The Five Cheese Pizza	Veggie	26066.5

7. Show the average pizza price by pizza category

```
select pizza_category, ROUND(AVG(total_price),2) as avg_price  
from pizza_sales  
group by pizza_category  
order by avg_price;
```

Result Grid  Filter Rows: <input type="text"/>		
	pizza_category	avg_price
▶	Classic	15.09
	Veggie	16.92
	Supreme	17.68
	Chicken	18.12

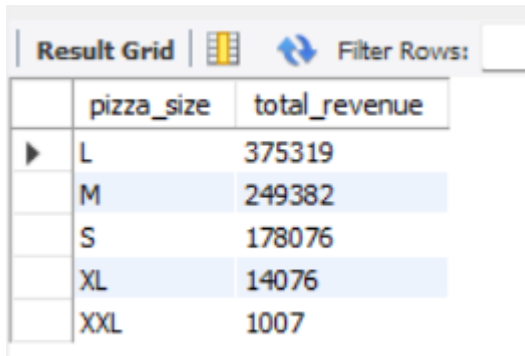
8. Find the total quantity sold.

```
select count(*) as total_pizza_sold  
from pizza_sales
```

Result Grid  Filter f	
	total_pizza_sold
▶	48620

9. Calculate total revenue by the pizza size

```
select pizza_size, round(sum(total_price),0) as total_revenue
from pizza_sales
group by pizza_size
order by total_revenue desc;
```

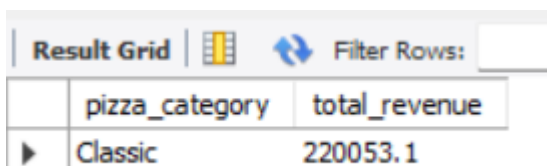


The screenshot shows a 'Result Grid' interface with a 'Filter Rows' button. The table displays the following data:

	pizza_size	total_revenue
▶	L	375319
	M	249382
	S	178076
	XL	14076
	XXL	1007

10. Find the category that generates most revenue

```
select
pizza_category, round(SUM(total_price), 2) as total_revenue
from pizza_sales
group by pizza_category
order by total_revenue desc
limit 1;
```



The screenshot shows a 'Result Grid' interface with a 'Filter Rows' button. The table displays the following data:

	pizza_category	total_revenue
▶	Classic	220053.1

11. Find the number of orders per day

```
select
    order_date,
    COUNT(DISTINCT order_id) AS number_of_orders
from pizza_sales
group by order_date
order by order_date;
```

Result Grid			Filter Rows:
	order_date	number_of_orders	
▶	01-01-2015	69	
	01-02-2015	87	
	01-03-2015	49	
	01-04-2015	67	
	01-05-2015	75	
	01-06-2015	72	
	01-07-2015	66	
	01-08-2015	74	
	01-09-2015	61	
	01-10-2015	84	
	01-11-2015	55	
	01-12-2015	61	

12. Find the pizzas that generate revenue more than 30000

select

 pizza_name,

 pizza_category,

 ROUND(SUM(total_price),1) as Total_revenue

from pizza_sales

group by pizza_name, pizza_category

having sum(total_price) > 30000;

Result Grid				Filter Rows:	Export:
	pizza_name	pizza_category	Total_revenue		
▶	The Hawaiian Pizza	Classic	32273.2		
	The Classic Deluxe Pizza	Classic	38180.5		
	The Italian Supreme Pizza	Supreme	33476.8		
	The Thai Chicken Pizza	Chicken	43434.2		
	The Barbecue Chicken Pizza	Chicken	42768		
	The Spicy Italian Pizza	Supreme	34831.2		
	The Southwest Chicken Pizza	Chicken	34705.8		
	The California Chicken Pizza	Chicken	41409.5		
	The Pepperoni Pizza	Classic	30161.8		
	The Four Cheese Pizza	Veggie	32265.7		
	The Sicilian Pizza	Supreme	30940.5		

13. Use CTE to find the total revenue and total sales for each pizza

with cte as(

select

 pizza_name,

 SUM(quantity) as total_sales,

 ROUND(SUM(total_price),1) as total_revenue

from pizza_sales

group by pizza_name

)

select pizza_name, total_sales , total_revenue


from cte;


Result Grid		Filter Rows:	Export:	Wrap
	pizza_name	total_sales	total_revenue	
▶	The Hawaiian Pizza	2422	32273.2	
	The Classic Deluxe Pizza	2453	38180.5	
	The Five Cheese Pizza	1409	26066.5	
	The Italian Supreme Pizza	1884	33476.8	
	The Mexicana Pizza	1484	26780.8	
	The Thai Chicken Pizza	2371	43434.2	
	The Prosciutto and Arugula Pizza	1457	24193.2	
	The Barbecue Chicken Pizza	2432	42768	
	The Greek Pizza	1420	28454.1	
	The Spinach Supreme Pizza	950	15277.8	
	The Green Garden Pizza	997	13955.8	

14 . find the highest and lowest prices pizzas in each category

```
with cte_high as (  
select  
    pizza_category,  
    Round(SUM(total_price),2) as Total_revenue,  
    ROW_NUMBER() over (order by sum(total_price) desc) as rankhigh  
from pizza_sales  
group by pizza_category  
)  
cte_low as (  
select  
    pizza_category,  
    ROUND(SUM(total_price),2) as total_revenue,  
    ROW_NUMBER() over (order by SUM(total_price) asc) as ranklow  
from pizza_sales  
group by pizza_category  
)  
select  
    h.pizza_category AS category_high,  
    h.total_revenue as revenue_high,  
    l.pizza_category as category_low,  
    l.total_revenue as revenue_low  
from cte_high h  
JOIN cte_low l  
ON h.rankhigh = l.ranklow;
```

Result Grid

 Filter Rows:

Export: 

Wrap C

	category_high	revenue_high	category_low	revenue_low
▶	Classic	220053.1	Veggie	193690.45
	Supreme	208197	Chicken	195919.5
	Chicken	195919.5	Supreme	208197
	Veggie	193690.45	Classic	220053.1

15. Find the top 3 pizzas per category using rank() function

```
with rnk_pizza as (  
  select  
    pizza_name,  
    pizza_category,  
    ROUND(sum(total_price),1) as total_revenue,  
    RANK() over (partition by pizza_category order by sum(total_price) desc) as rnk  
  from pizza_sales  
  group by pizza_name, pizza_category  
)  
select  
  pizza_name,  
  pizza_category,  
  total_revenue,  
  rnk  
from rnk_pizza  
where rnk <=3  
order by rnk asc, pizza_category;
```

Result Grid Filter Rows: Export: Wrap Cell Con				
	pizza_name	pizza_category	total_revenue	rnk
▶	The Thai Chicken Pizza	Chicken	43434.2	1
	The Classic Deluxe Pizza	Classic	38180.5	1
	The Spicy Italian Pizza	Supreme	34831.2	1
	The Four Cheese Pizza	Veggie	32265.7	1
	The Barbecue Chicken Pizza	Chicken	42768	2
	The Hawaiian Pizza	Classic	32273.2	2
	The Italian Supreme Pizza	Supreme	33476.8	2
	The Mexicana Pizza	Veggie	26780.8	2
	The California Chicken Pizza	Chicken	41409.5	3
	The Pepperoni Pizza	Classic	30161.8	3
	The Sicilian Pizza	Supreme	30940.5	3
	The Five Cheese Pizza	Veggie	26066.5	3

16. Display the pizza ranking by quantity sold for each category

with ranking as (

select

 pizza_name,

 pizza_category,

 Sum(quantity) as total_quantity

from pizza_sales

group by pizza_name, pizza_category

)

select

 pizza_category,

 pizza_name,

 RANK() over (partition by pizza_category order by total_quantity desc) as rnk

from ranking

order by pizza_category, pizza_name;

	pizza_category	pizza_name	rnk
►	Chicken	The Barbecue Chicken Pizza	1
	Chicken	The California Chicken Pizza	3
	Chicken	The Chicken Alfredo Pizza	5
	Chicken	The Chicken Pesto Pizza	6
	Chicken	The Southwest Chicken Pizza	4
	Chicken	The Thai Chicken Pizza	2
	Classic	The Big Meat Pizza	4
	Classic	The Classic Deluxe Pizza	1
	Classic	The Greek Pizza	7
	Classic	The Hawaiian Pizza	2
	Classic	The Italian Capocollo Pizza	6
	Classic	The Napolitana Pizza	5
	Classic	The Pepperoni Pizza	3
	Classic	The Pepperoni, Mushroom, ...	8
	Supreme	The Brie Carre Pizza	9

17.

```
with pizza_rank as (  
  select  
    pizza_name,  
    pizza_category,  
    ROUND(SUM(total_price),1) as total_revenue,  
    RANK() over (order by sum(total_price) desc) as rnk  
  from pizza_sales  
  group by pizza_category, pizza_name  
)  
select  
  pizza_name, pizza_category, total_revenue, rnk  
from pizza_rank  
where rnk <= 1
```

	Result Grid	Filter Rows:	Export:	Wrap C
	pizza_name	pizza_category	total_revenue	rnk
▶	The Thai Chicken Pizza	Chicken	43434.2	1

18. Calculate the running total by order date

```
with daily_sales as(  
  select  
    order_date ,  
    round(sum(total_price),1) as total_revenue,  
    sum(quantity) as total_sales  
  from pizza_sales  
  group by order_date  
)  
select  
  order_date,  
  total_revenue,  
  ROUND(SUM(total_revenue) over (order by order_date),1) as runnig_total_revenue,  
  SUM(total_sales) over (order by order_date) as running_total_sales  
from daily_sales
```

order by order_date asc;

Result Grid		Filter Rows:	Export:	Wrap Cell Content
	order_date	total_revenue	running_total_revenue	running_total_sales
▶	01-01-2015	2713.9	2713.9	162
	01-02-2015	3189.2	5903.1	353
	01-03-2015	1598.6	7501.7	452
	01-04-2015	2176.9	9678.6	587
	01-05-2015	2572	12250.6	741
	01-06-2015	3067.8	15318.4	925
	01-07-2015	2231.5	17549.9	1062
	01-08-2015	2440.6	19990.5	1216
	01-09-2015	2352.9	22343.4	1362
	01-10-2015	3202.1	25545.5	1556
	01-11-2015	1986.6	27532.1	1680
	01-12-2015	2076.7	29608.8	1811
	02-01-2015	2731.9	32340.7	1976
	02-02-2015	2328.6	34669.3	2121
	02-03-2015	2379	37048.3	2260

19. Show top 5 pizza that contribute most to overall revenue

with top_pizza as (

select

 pizza_name,

 pizza_category,

 pizza_size,

 ROUND(SUM(total_price),1) as total_revenue,

 RANK() over (order by sum(total_price)desc) as rnk

from pizza_sales

group by pizza_name, pizza_category, pizza_size

)

select * from top_pizza

where rnk<=6

order by rnk asc;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	pizza_name	pizza_category	pizza_size	total_revenue	rnk
▶	The Thai Chicken Pizza	Chicken	L	29257.5	1
	The Five Cheese Pizza	Veggie	L	26066.5	2
	The Four Cheese Pizza	Veggie	L	23622.2	3
	The Spicy Italian Pizza	Supreme	L	23011.8	4
	The Big Meat Pizza	Classic	S	22968	5
	The Southwest Chicken Pizza	Chicken	L	21082	6

20. Find the percentage contribution of each pizza in overall revenue

with percentage as (

select

 pizza_name,

 ROUND(SUM(total_price),1) as total_revenue

from pizza_sales

group by pizza_name

)

select

 pizza_name,

 total_revenue,

 ROUND((total_revenue / (select sum(total_revenue) from percentage)) * 100, 2) as revenue_percentage

FROM percentage

order by revenue_percentage desc;

Result Grid	Filter Rows:	Export:	Wrap Cell Cx
	pizza_name	total_revenue	revenue_percentage
►	The Thai Chicken Pizza	43434.2	5.31
	The Barbecue Chicken Pizza	42768	5.23
	The California Chicken Pizza	41409.5	5.06
	The Classic Deluxe Pizza	38180.5	4.67
	The Spicy Italian Pizza	34831.2	4.26
	The Southwest Chicken Pizza	34705.8	4.24
	The Italian Supreme Pizza	33476.8	4.09
	The Hawaiian Pizza	32273.2	3.95
	The Four Cheese Pizza	32265.7	3.95
	The Sicilian Pizza	30940.5	3.78
	The Pepperoni Pizza	30161.8	3.69
	The Greek Pizza	28454.1	3.48
	The Mexicana Pizza	26780.8	3.27
	The Five Cheese Pizza	26066.5	3.19