









SQL PROJECT

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➤ Tables

Result Grid   Filter Rows: <input type="text"/>				
	pizza_id	pizza_type_id	size	price
▶	bbq_ckn_s	bbq_ckn	S	12.75
	bbq_ckn_m	bbq_ckn	M	16.75
	bbq_ckn_l	bbq_ckn	L	20.75
	cali_ckn_s	cali_ckn	S	12.75
	cali_ckn_m	cali_ckn	M	16.75
	cali_ckn_l	cali_ckn	L	20.75
	ckn_alfredo_s	ckn_alfredo	S	12.75
	ckn_alfredo_m	ckn_alfredo	M	16.75
	ckn_alfredo_l	ckn_alfredo	L	20.75
	ckn_pesto_s	ckn_pesto	S	12.75
	ckn_pesto_m	ckn_pesto	M	16.75
	ckn_pesto_l	ckn_pesto	L	20.75
	southw_ckn_s	southw_ckn	S	12.75
	southw_ckn_m	southw_ckn	M	16.75
	southw_ckn_l	southw_ckn	L	20.75
	thai_ckn_s	thai_ckn	S	12.75



pizzas 1 x

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 				
	pizza_type_id	name	category	ingredients
▶	bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Pepp...
	cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
	ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms...
	ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
	southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, ...
	thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
	big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...
	classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
	hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
	ital_cpello	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
	napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion...
	pep_msh_pep	The Pepperoni, Mushroom, ...	Classic	Pepperoni, Mushrooms, Green Peppers
	pepperoni	The Pepperoni Pizza	Classic	Mozzarella Cheese, Pepperoni
	the_greek	The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garli...
	brie_carre	The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Caramelized Oni...
	calahrese	The Calahrese Pizza	Supreme	Nduia Salami, Pancetta, Tomatoes, Red Onions...

pizza types 1 x

► Tables


Result Grid



Filter Rows:

	order_id	order_date	order_time
▶	1	2015-01-01	11:38:36
	2	2015-01-01	11:57:40
	3	2015-01-01	12:12:28
	4	2015-01-01	12:16:31
	5	2015-01-01	12:21:30
	6	2015-01-01	12:29:36
	7	2015-01-01	12:50:37
	8	2015-01-01	12:51:37
	9	2015-01-01	12:52:01
	10	2015-01-01	13:00:15
	11	2015-01-01	13:02:59
	12	2015-01-01	13:04:41
	13	2015-01-01	13:11:55
	14	2015-01-01	13:14:19
	15	2015-01-01	13:33:00
	16	2015-01-01	13:34:07


orders 1
×

Result Grid



Filter Rows:

Edit:



	order_details_id	order_id	pizza_id	quantity
▶	1	1	hawaiian_m	1
	2	2	classic_dlx_m	1
	3	2	five_cheese_l	1
	4	2	ital_supr_l	1
	5	2	mexicana_m	1
	6	2	thai_ckn_l	1
	7	3	ital_supr_m	1
	8	3	prsc_argla_l	1
	9	4	ital_supr_m	1
	10	5	ital_supr_m	1
	11	6	bbq_ckn_s	1
	12	6	the_greek_s	1
	13	7	spinach_supr_s	1
	14	8	spinach_supr_s	1
	15	9	classic_dlx_s	1
	16	9	green_garde...	1

order_details 1

×

➤ Retrieve The Total Number Of Orders Placed.

```
• select count(order_id)  
  as total_orders  
 from orders;
```

Result Grid		Filter R
	total_orders	
▶	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
```

Result Grid		Filter R
	total_sales	
▶	817860.05	

➤ Identify the highest-priced pizza.

```
select pizza_types.name,  
pizzas.price  
from pizza_types  
join pizzas  
on pizza_types.  
pizza_type_id=pizzas.  
pizza_type_id  
order by pizzas.price  
desc limit 1;
```

Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	

➤ Identify the most common pizza size ordered.

```
select pizzas.size ,  
count(order_details.order_details_id)  
as order_count  
from pizzas join order_details  
on pizzas.pizza_id = order_details.pizza_id  
group by pizzas.size order by order_count desc ;
```

Result Grid			Filter Rows:
	size	order_count	
▶	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 ;
```

Result Grid			Filter Rows:
	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 ordered

```
• select pizza_types.category ,  
       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.category  
order by quantity desc ;
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the results of a SQL query, showing four rows of data. The first row is 'Classic' with a quantity of 14888. The second row is 'Supreme' with a quantity of 11987. The third row is 'Veggie' with a quantity of 11649. The fourth row is 'Chicken' with a quantity of 11050. The interface includes a 'Filter Rows' button and a grid icon.

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

➤ Determine the distribution of orders by hour of the day.

```
• select hour(order_time) as hour ,  
count(order_id) as order_count  
from orders  
group by hour (order_time);
```

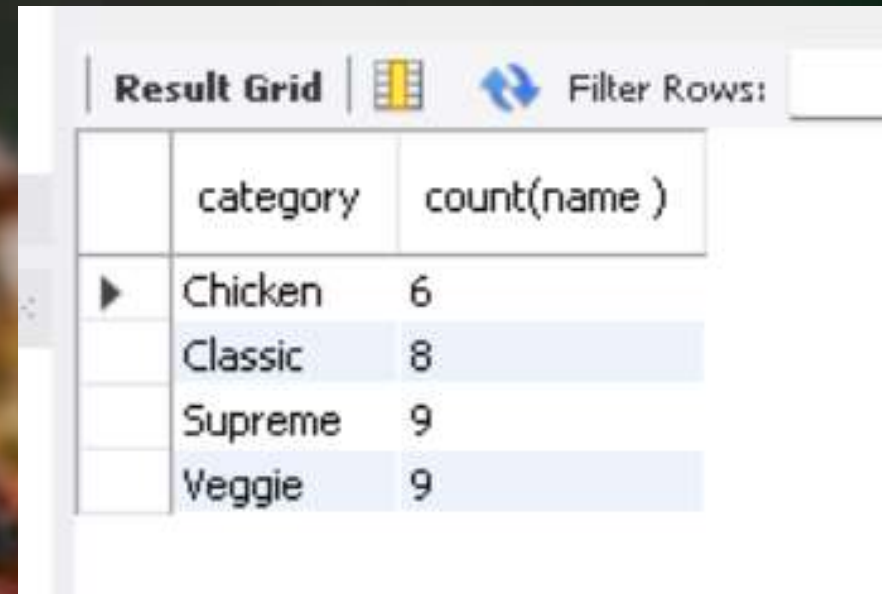
Result Grid   Filter Rows:

	hour	order_count
▶	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

Result 3

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

```
• select category , count(name )  
  from pizza_types  
 group by category ;
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the results of a SQL query that counts the number of pizzas in each category. The table has two columns: 'category' and 'count(name)'. The data is as follows:

	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) 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 ;
```

Result Grid		Filter Rows:
	round(avg (quantity), 0)	
▶	138	

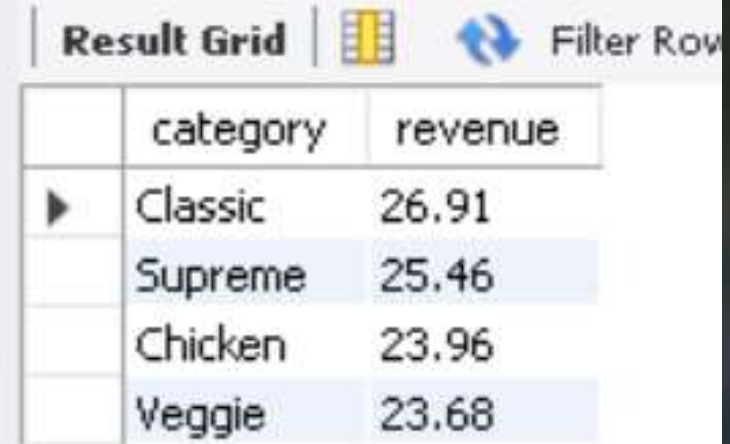
➤ Determine the top 3 most ordered pizza types based on revenue.

```
select pizza_types.name ,  
sum(order_details.quantity* pizzas.price)  
as revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id=pizza_types.pizza_type_id  
join order_details  
on order_details.pizza_id=pizzas.pizza_id  
group by pizza_types.name order by  
revenue desc limit 3 ;
```

Result Grid			Filter Rows:
	name	revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

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

```
select pizza_types.category ,  
round(sum(order_details.quantity*pizzas.price) /(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) *100 ,2) 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 ;
```



The screenshot shows a database interface with a 'Result Grid' tab. It contains a table with two columns: 'category' and 'revenue'. The data is sorted in descending order of revenue. The categories listed are Classic, Supreme, Chicken, and Veggie.

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

➤ 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 ) as sales ;
```

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01	2713.85000000000004	
	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	
	2015-01-08	19399.05	
	2015-01-09	21526.4	
	2015-01-10	23990.3500000000002	
	2015-01-11	25862.65	
	2015-01-12	27781.7	
	2015-01-13	29831.3000000000003	
	2015-01-14	32358.7000000000004	
	2015-01-15	34343.500000000001	
	2015-01-16	36937.650000000001	

➤ 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;
```

Result Grid			Filter Rows:	Expo
	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	32265.700000000065		
	The Mexicana Pizza	26780.75		
	The Five Cheese Pizza	26066.5		