

 SQL PROJECT

PIZZA SALES

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ABOUT PIZZA SALES

THIS PROJECT ANALYZES PIZZA SALES DATA USING SQL TO EXTRACT ACTIONABLE BUSINESS INSIGHTS. IT COVERS TOTAL ORDERS, REVENUE, AND TOP-SELLING ITEMS, WHILE ALSO EXAMINING TRENDS BY TIME, CATEGORY, AND PERFORMANCE. THE ANALYSIS HELPS TO IDENTIFY SALES DRIVERS, CUSTOMER PREFERENCES, AND REVENUE PATTERNS, SUPPORTING SMARTER DECISIONS IN OPERATIONS AND MENU PLANNING.





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350



CALCULATE THE TOTAL REVENUE GENERATED
FROM PIZZA SALES.



```
select  
round(sum((order_details.quantity * pizzas.price)),2) as total_revenue  
from order_details join pizzas  
on  
order_details.pizza_id = pizzas.pizza_id
```

Result Grid	
	total_revenue
▶	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
  pizzas.pizza_type_id,
  SUM(order_details.quantity) AS quantity_count
FROM
  pizzas
  JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_type_id
ORDER BY quantity_count DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	pizza_type_id	quantity_count	
▶	classic_dlx	2453	
	bbq_dkn	2432	
	hawaiian	2422	
	pepperoni	2418	
	thai_dkn	2371	

FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT
  pizza_types.category,
  SUM(order_details.quantity) AS total_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;
```

Result Grid			Filter Rows:
	category	total_quantity	
▶	Classic	14888	
	Veggie	11649	
	Supreme	11987	
	Chicken	11050	

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT  
    HOUR(time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY hour  
ORDER BY hour;
```

	hour	order_count
▶	9	1
	10	8
	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

FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

Result Grid			Filter Rows:
	category	pizzas_distributed	
▶	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	

GROUP THE ORDERS BY DATE AND CALCULATE THE
AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
4 • select round(avg(quantity),0) from
5   (select orders.date, sum(order_details.quantity) as quantity
6    from orders join order_details
7    on
8     orders.order_id = order_details.order_id
9   group by orders.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 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 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	

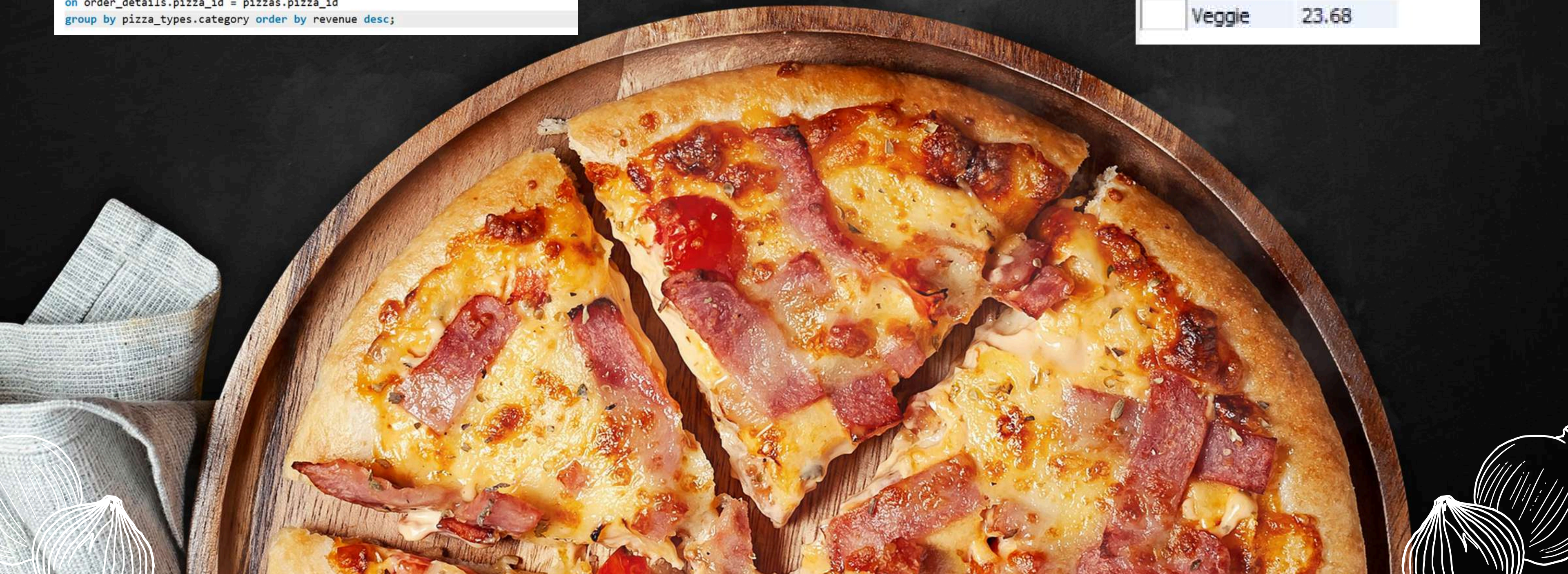


CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
select pizza_types.category,  
round((sum(order_details.quantity * pizzas.price) / (select  
round(sum((order_details.quantity * pizzas.price)),2) as total_revenue  
from order_details join pizzas  
on  
order_details.pizza_id = pizzas.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;
```

Result Grid |   Filter Rows:

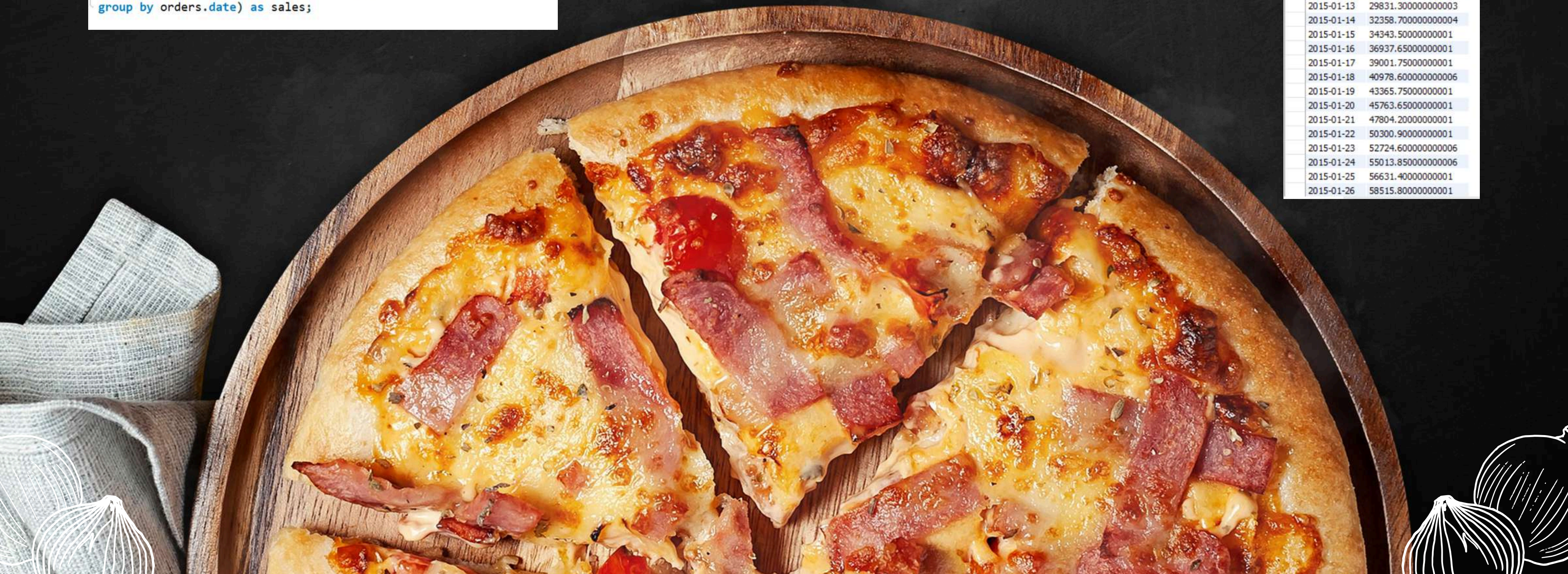
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select date,  
sum(revenue) over (order by date) as cum_revenue  
from  
(select orders.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.date) as sales;
```

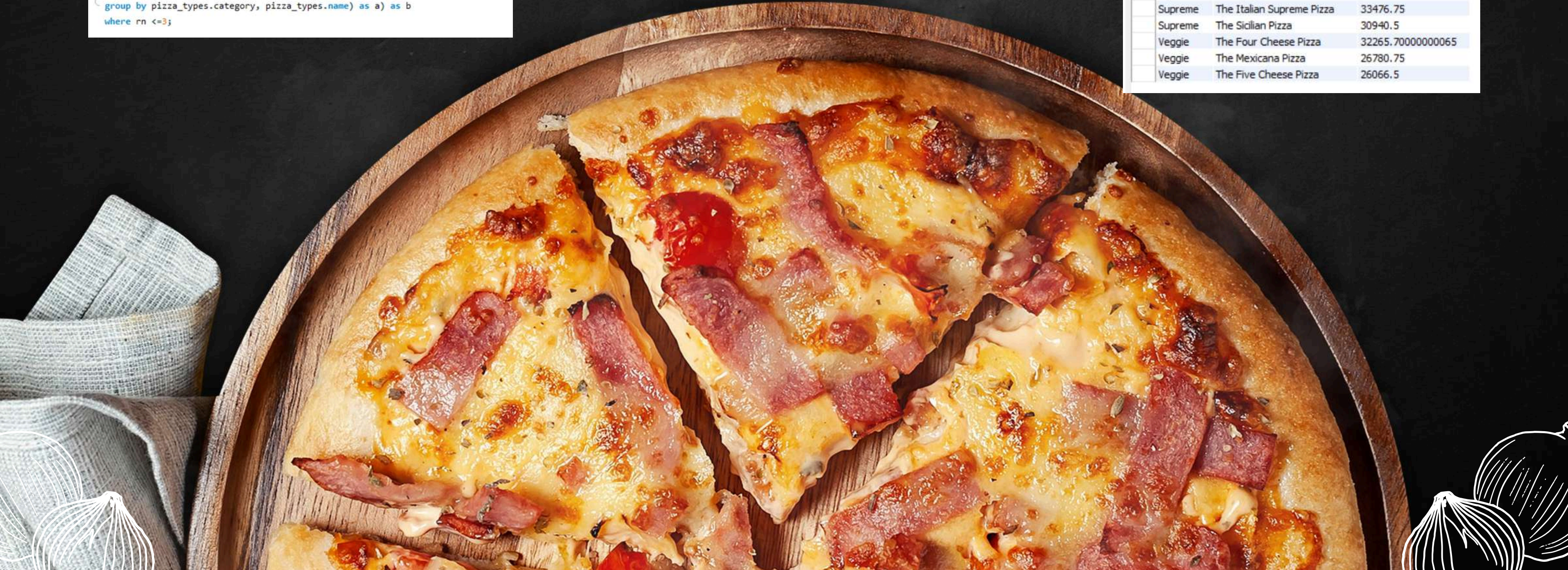
	date	cum_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.750000000001
	2015-01-20	45763.650000000001
	2015-01-21	47804.200000000001
	2015-01-22	50300.900000000001
	2015-01-23	52724.600000000006
	2015-01-24	55013.850000000006
	2015-01-25	56631.400000000001
	2015-01-26	58515.800000000001



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select category, 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: <input type="text"/>			
Export: 			
	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.70000000065
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5



THANK YOU!

