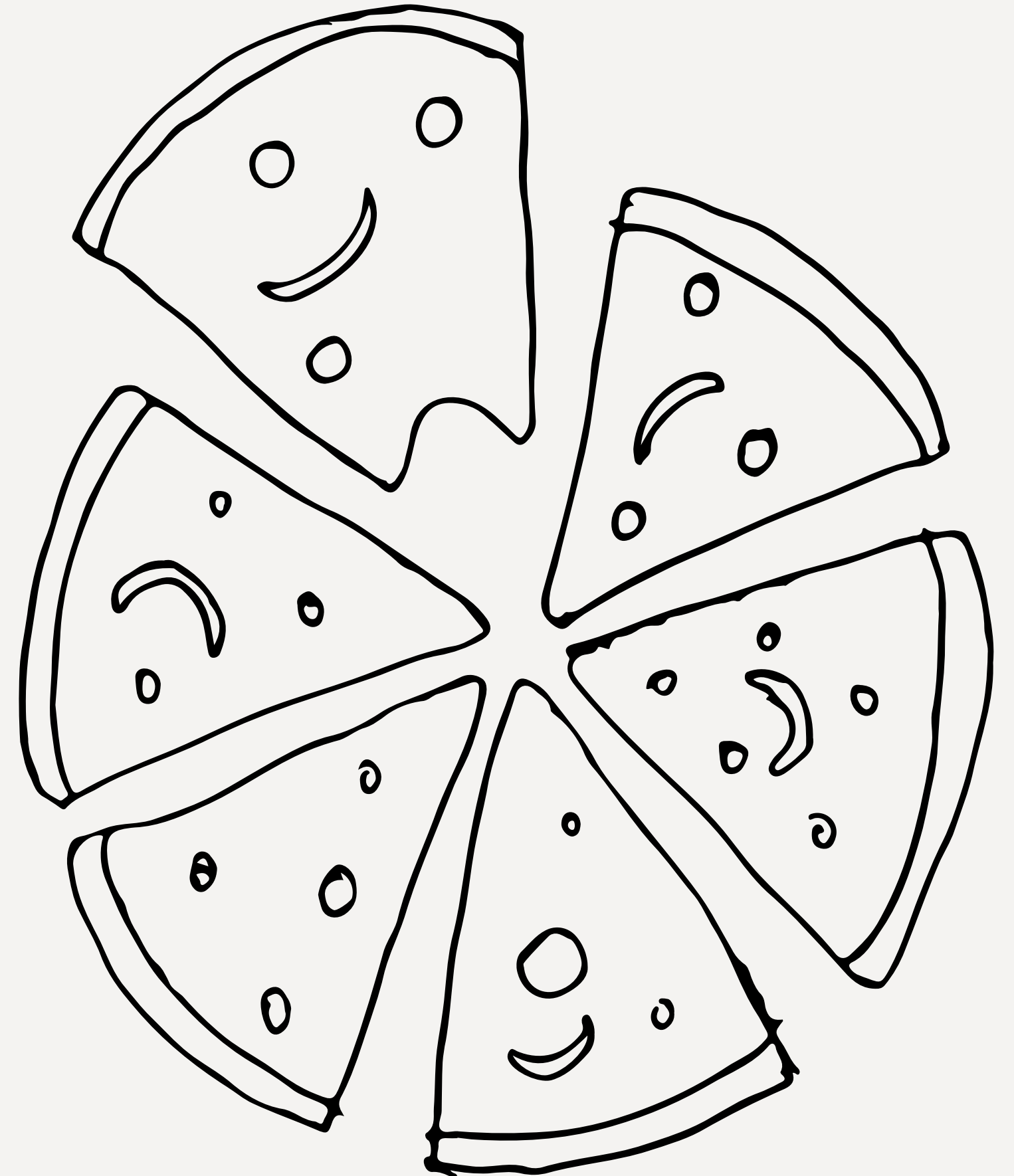


SQL Project

Pizza Republic

sales report



CREATION OF DATABASE

```
CREATE DATABASE pizza_republic ;
```

```
SELECT
```

```
    *
```

```
FROM
```

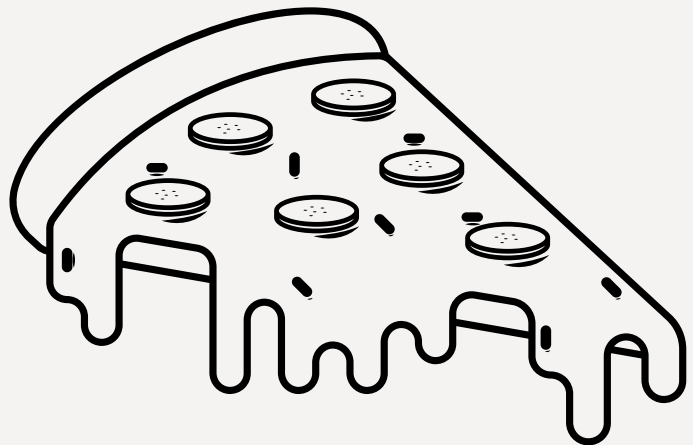
```
    pizzas;
```

```
SELECT
```

```
    *
```

```
FROM
```

```
    pizza_types;
```

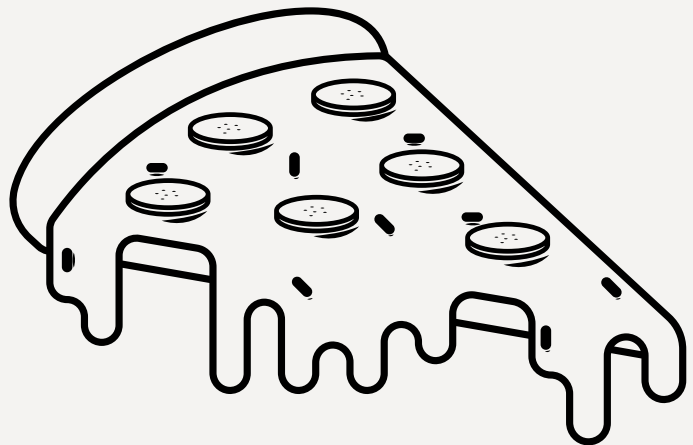


- ```
CREATE TABLE orders (
 order_id INT NOT NULL,
 `date` DATE NOT NULL,
 `time` TIME NOT NULL,
 PRIMARY KEY (order_id)
);
```
- ```
CREATE TABLE order_details (  
    order_details_id INT NOT NULL,  
    order_id INT NOT NULL,  
    pizza_id TEXT NOT NULL,  
    quantity INT NOT NULL,  
    PRIMARY KEY (order_details_id)  
);
```

-- BASIC: QUERY 1

Retrieve the total number of orders placed.

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



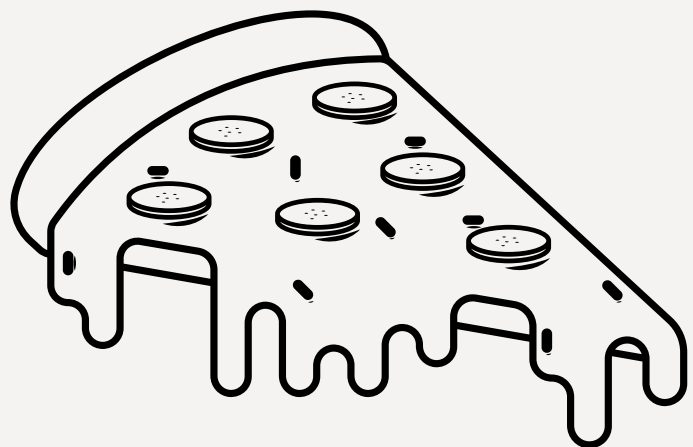
Result Grid		
	total_orders	
▶	21350	

QUERY 2

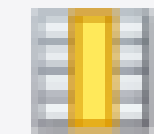
Calculate the total revenue generated from pizza sales.

- **SELECT**

```
ROUND(SUM(order_details.quantity * pizzas.price),  
      0) AS total_revenue  
  
FROM  
  order_details  
  JOIN  
  pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



Result Grid

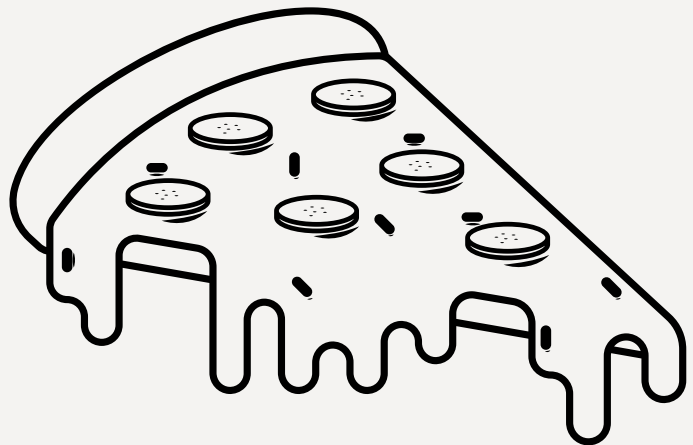


	total_revenue
▶	817860

QUERY 3

Identify the highest-priced pizza.

```
• SELECT
    pizza_types.name, pizzas.price AS highest_priced
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

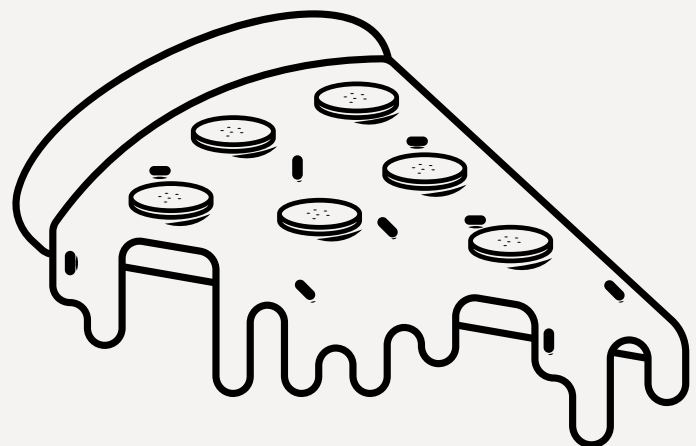


Result Grid			Filter Rows:
	name	highest_priced	
▶	The Greek Pizza	35.95	

QUERY 4

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
LIMIT 1;
```

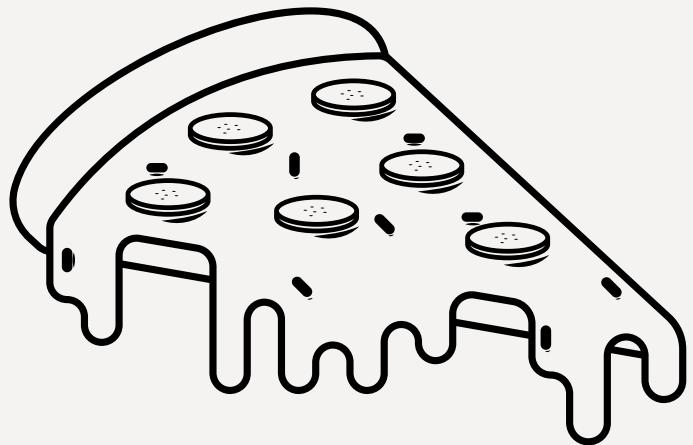


Result Grid			Filter
	size	order_count	
▶	L	18526	

QUERY 5

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;
```

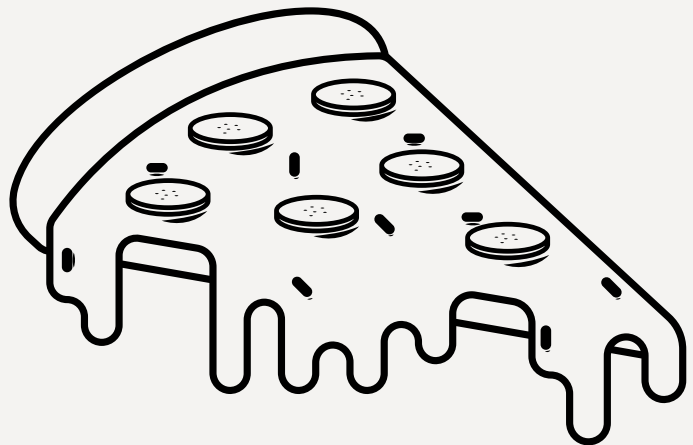


Result Grid			Filter Rows:
	name	quantity	
▶	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	

--INTERMEDIATE: QUERY 6

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;
```

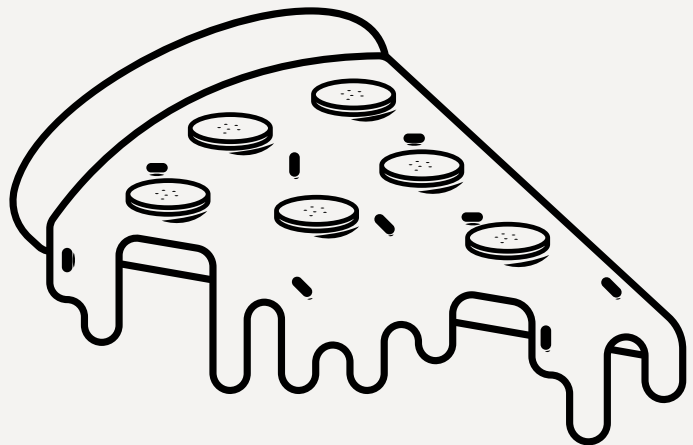


Result Grid			Filter F
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

QUERY 7

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(time);
```

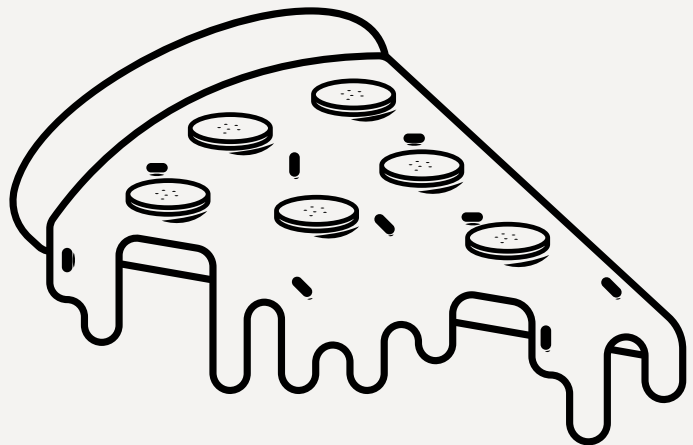


Result Grid			Filter
	hour	order_count	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	
	22	663	
	23	28	
	10	8	
	9	1	

QUERY 8

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

```
• SELECT
    category, COUNT(name) AS count
FROM
    pizza_types
GROUP BY category;
```

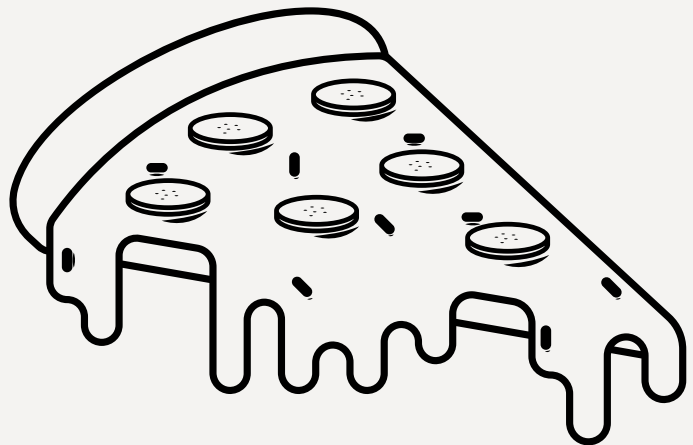


Result Grid		
	category	count
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

QUERY 9

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

```
• SELECT
    ROUND(AVG(quantity),0) AS avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS order_quantity;
```



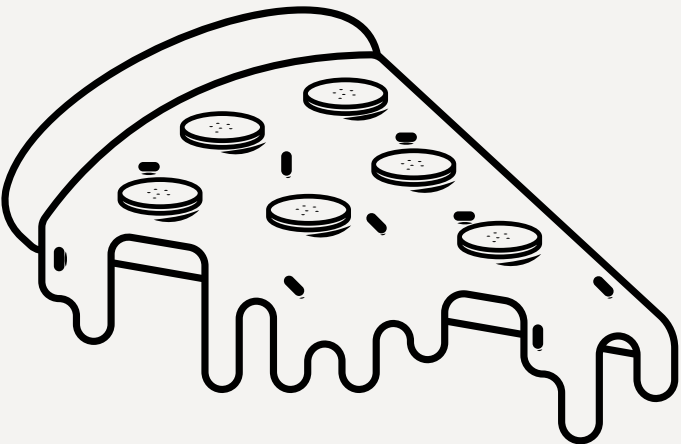
Result Grid		Filter Rows:
	avg_pizza_ordered_per_day	
▶	138	

QUERY 10

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

```
• SELECT
    pizza_types.name,
    ROUND(SUM(order_details.quantity * pizzas.price),
          0) 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	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41410	

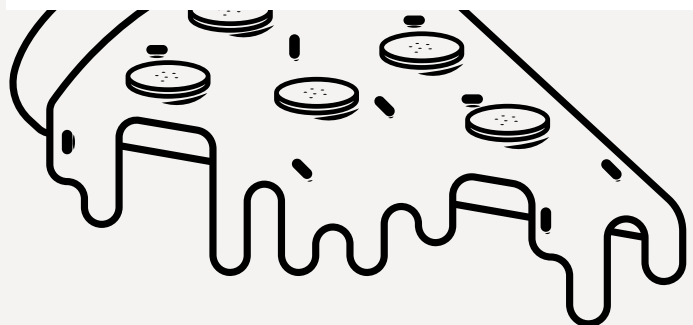


-- ADVANCED: QUERY 11

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),
            0) AS total_revenue
    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;
```

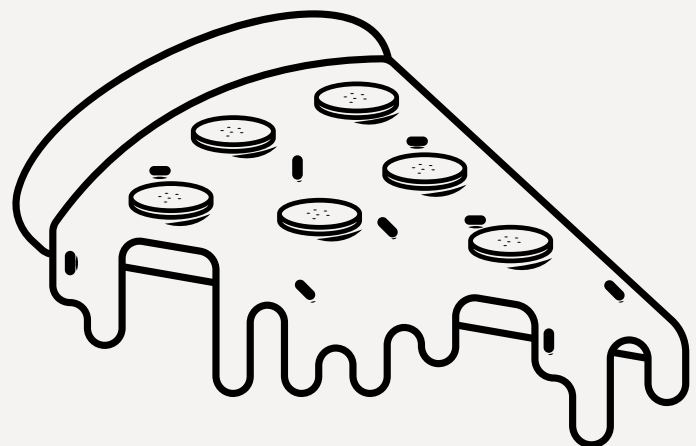
Result Grid			Filter
	category	revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	



QUERY 12

Analyze the cumulative revenue generated over time.

```
• SELECT `date`,  
  round(sum(revenue) OVER(ORDER BY `date`),1) 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;
```



Result Grid			Filter Rows:
	date	cum_revenue	
▶	2015-01-01	2713.9	
	2015-01-02	5445.8	
	2015-01-03	8108.2	
	2015-01-04	9863.6	
	2015-01-05	11929.6	
	2015-01-06	14358.5	
	2015-01-07	16560.7	
	2015-01-08	19399	
	2015-01-09	21526.4	
	2015-01-10	23990.4	
	2015-01-11	25862.6	
	2015-01-12	27781.7	
	2015-01-13	29831.3	
	2015-01-14	32358.7	
	2015-01-15	34343.5	
	2015-01-16	36037.7	

Result 54 ▼

QUERY 13

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

```
SELECT
    category,
    name,
    revenue,
    RANK() OVER(PARTITION BY category ORDER BY revenue DESC) AS `rank`
FROM
    (SELECT
        category,
        name,
        revenue,
        RANK() OVER(PARTITION BY category ORDER BY revenue DESC) AS `rank`
    FROM
        (SELECT
            pizza_types.category,
            pizza_types.name,
            ROUND(SUM(order_details.quantity * pizzas.price),0) 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 `rank` <= 3
    GROUP BY category, name, revenue;
```

Result Grid

Filter Rows:

Export:

	category	name	revenue	rank
▶	Chicken	The Thai Chicken Pizza	43434	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41410	3
	Classic	The Classic Deluxe Pizza	38180	1
	Classic	The Hawaiian Pizza	32273	2
	Classic	The Pepperoni Pizza	30162	3
	Supreme	The Spicy Italian Pizza	34831	1
	Supreme	The Italian Supreme Pizza	33477	2
	Supreme	The Sicilian Pizza	30940	3
	Veggie	The Four Cheese Pizza	32266	1
	Veggie	The Mexicana Pizza	26781	2
	Veggie	The Five Cheese Pizza	26066	3