



# ***HELLO!***

**UP TO  
50%  
OFF**

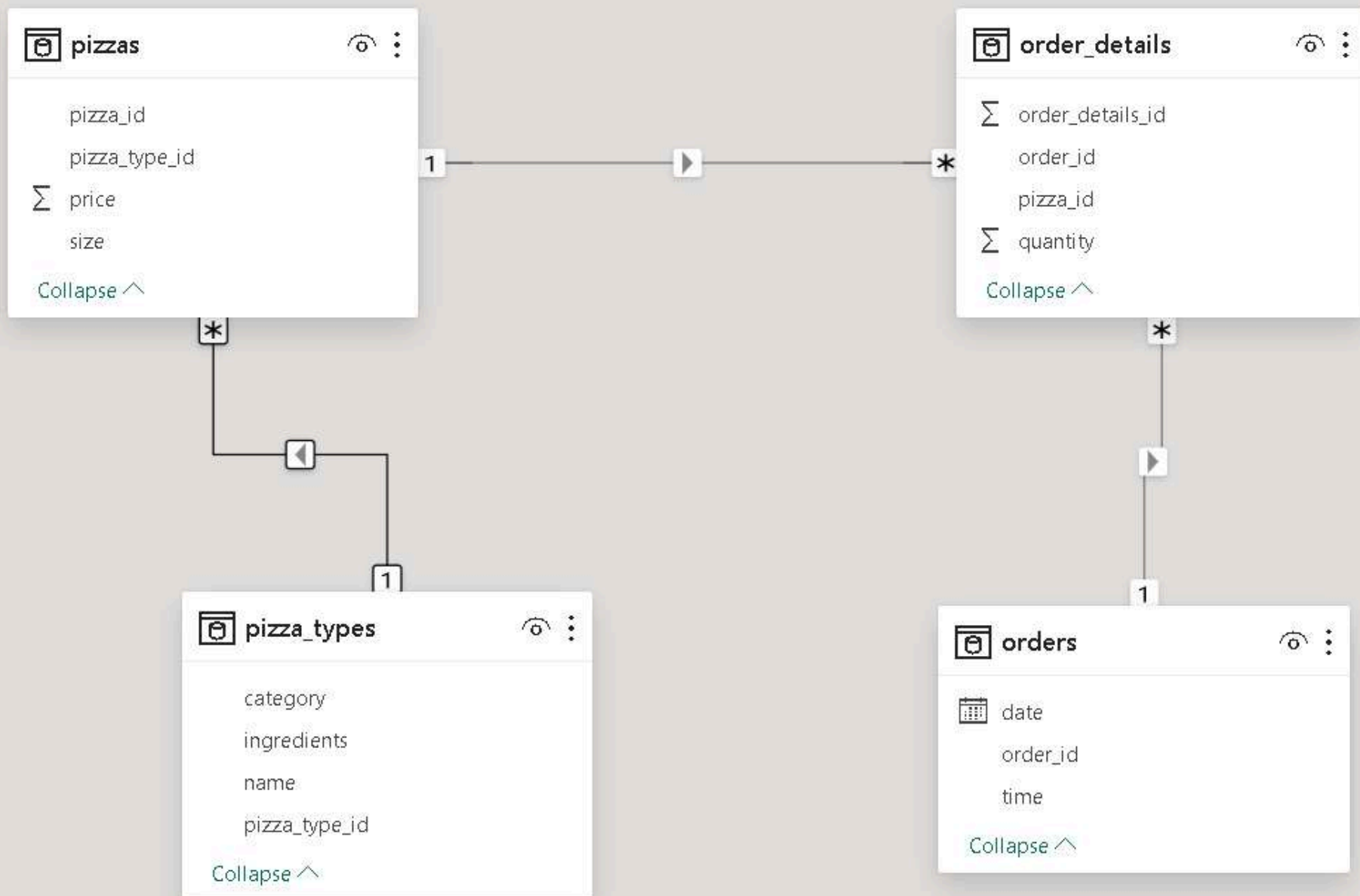
**MY name is Hrutik  
Awasthi  
and in this project i  
have utilize sql  
queries to solve the  
questions which are  
related to pizza  
sales.**



**Contact Us:**

- **8483890379**
- **hrutikawasthi8956@gmail.com**






# MODEL VIEW



## **Basic:**

1. Retrieve the total number of orders placed.
  2. Calculate the total revenue generated from pizza sales.
  3. Identify the highest-priced pizza.
  4. Identify the most common pizza size ordered.
  5. List the top 5 most ordered pizza types along with their quantities.
- 

## **Intermediate:**

1. Join the necessary tables to find the total quantity of each pizza category ordered.
2. Determine the distribution of orders by hour of the day.
3. Join relevant tables to find the category-wise distribution of pizzas.
4. Group the orders by date and calculate the average number of pizzas ordered per day.
5. Determine the top 3 most ordered pizza types based on revenue.

## **Advanced:**

1. Calculate the percentage contribution of each pizza type to total revenue.
2. Analyze the cumulative revenue generated over time.
3. Determine the top 3 most ordered pizza types based on revenue for each pizza category.





/\*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)
```

```
FROM
```

```
    order_details
```

```
    JOIN
```

```
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

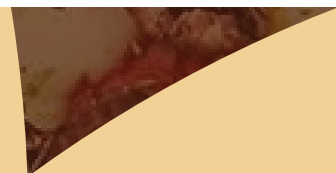


Result Grid			Filter Rows:
	ROUND(SUM(order_details.quantity * pizzas.price), 2)		
▶	817860.05	817860.05	



/\*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 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 count_orders  
from pizzas join order_details  
on pizzas.pizza_id=order_details.pizza_id  
group by pizzas.size  
order by count_orders desc;
```



| Result Grid |      |              |  |  Filter Rows |
|-------------|------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|             | size | count_orders |                                                                                     |                                                                                                 |
| ▶           | L    | 18526        |                                                                                     |                                                                                                 |
|             | M    | 15385        |                                                                                     |                                                                                                 |
|             | S    | 14137        |                                                                                     |                                                                                                 |
|             | XL   | 544          |                                                                                     |                                                                                                 |
|             | XXL  | 28           |                                                                                     |                                                                                                 |





```
select pizza_types.name,sum(order_details.quantity) as total_quantities
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 total_quantities desc
limit 5;
```



| Result Grid |                            |                  | Filter Rows: |
|-------------|----------------------------|------------------|--------------|
|             | name                       | total_quantities |              |
| ▶           | 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)
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join pizza_types
on pizza_types.pizza_type_id=pizzas.pizza_type_id
group by pizza_types.category
order by sum(order_details.quantity) desc;
```



| Result Grid |          |                             |  |  Filter Rows: <input type="text"/> |
|-------------|----------|-----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|             | category | sum(order_details.quantity) |                                                                                     |                                                                                                                       |
| ▶           | Classic  | 14888                       |                                                                                     |                                                                                                                       |
|             | Supreme  | 11987                       |                                                                                     |                                                                                                                       |
|             | Veggie   | 11649                       |                                                                                     |                                                                                                                       |
|             | Chicken  | 11050                       |                                                                                     |                                                                                                                       |









```
/*Join the necessary tables to find the total quantity of each pizza category ordered.*/  
  
• select pizza_types.category,sum(order_details.quantity)  
  from order_details join pizzas  
  on order_details.pizza_id = pizzas.pizza_id  
  join pizza_types  
  on pizza_types.pizza_type_id=pizzas.pizza_type_id  
 group by pizza_types.category  
 order by sum(order_details.quantity) desc;
```



| Result Grid |          |                             |  |  Filter Rows: |
|-------------|----------|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|             | category | sum(order_details.quantity) |                                                                                     |                                                                                                  |
| ▶           | Classic  | 14888                       |                                                                                     |                                                                                                  |
|             | Supreme  | 11987                       |                                                                                     |                                                                                                  |
|             | Veggie   | 11649                       |                                                                                     |                                                                                                  |
|             | Chicken  | 11050                       |                                                                                     |                                                                                                  |





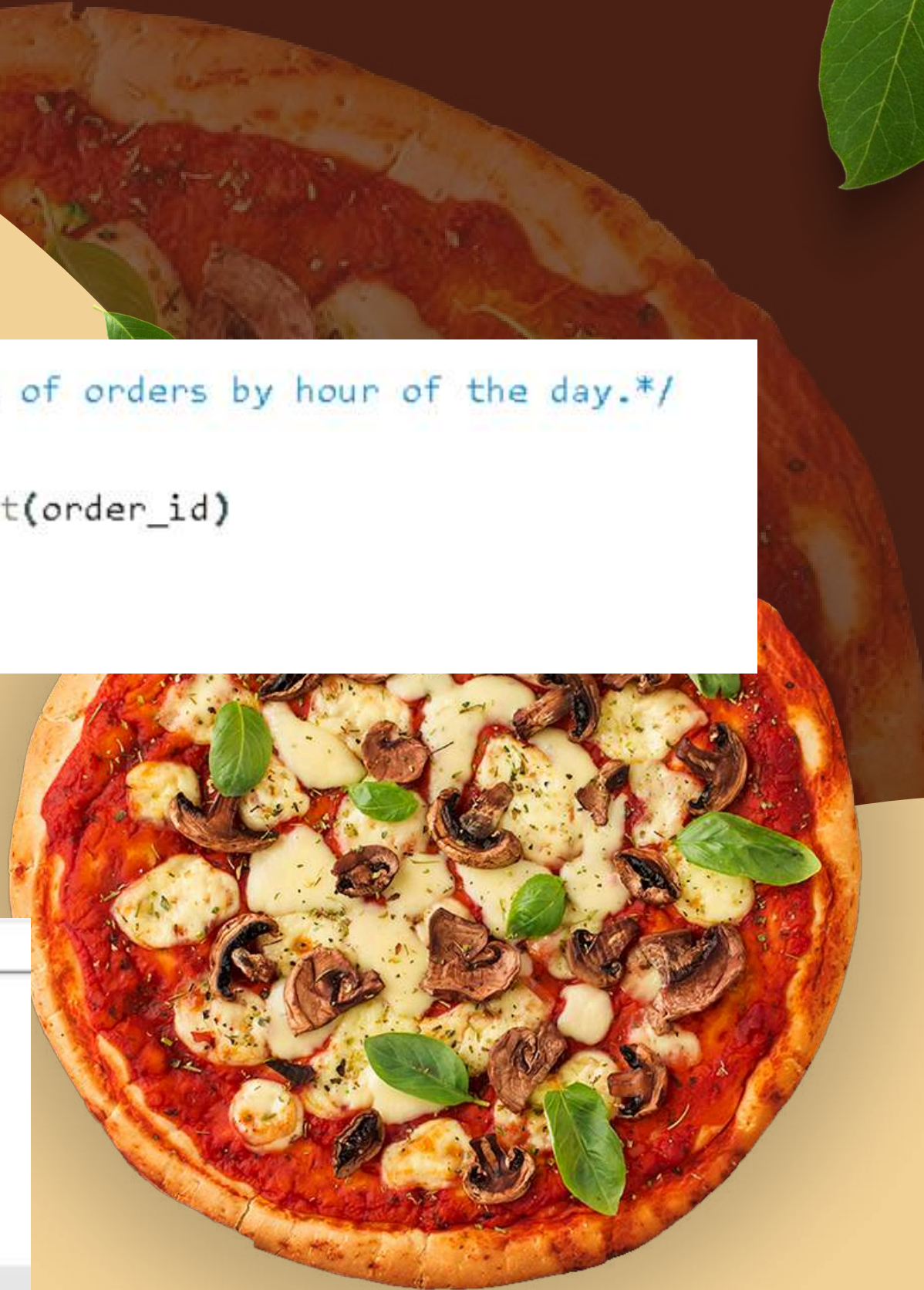
```
/*Determine the distribution of orders by hour of the day.*/
```

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



| Result Grid |                  |                 | Filter Rows: |
|-------------|------------------|-----------------|--------------|
|             | hour(order_time) | count(order_id) |              |
| ▶           | 11               | 1231            |              |
|             | 12               | 2520            |              |
|             | 13               | 2455            |              |
|             | 14               | 1472            |              |
|             | 15               | 1468            |              |

Result 15 x







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

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



| Result Grid |          |             | Filter Rows: |
|-------------|----------|-------------|--------------|
|             | category | count(name) |              |
| ▶           | Chicken  | 6           |              |
|             | Classic  | 8           |              |
|             | Supreme  | 9           |              |
|             | Veggie   | 9           |              |

Result 16 x





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

```
• select round(avg(quantity),0) as avg_pizzas_per_day from
  (select orders.order_date , sum(order_details.quantity) as quantity from
    order_details join orders
    on order_details.order_id=orders.order_id
   group by orders.order_date) as order_quantity;
```



| Result Grid |                    | Filter Rows |
|-------------|--------------------|-------------|
|             | avg_pizzas_per_day |             |
| ▶           | 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, (sum(order_details.quantity*pizzas.price) / (SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
        2)
FROM
    order_details
    JOIN
        pizzas ON order_details.pizza_id = pizzas.pizza_id))*100 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: <input type="text"/> |
|-------------|----------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
|             | category | revenue            |                                                                                                                       |
| ▶           | Classic  | 26.90596025566967  |                                                                                                                       |
|             | Supreme  | 25.45631126009862  |                                                                                                                       |
|             | Chicken  | 23.955137556847287 |                                                                                                                       |
|             | Veggie   | 23.682590927384577 |                                                                                                                       |

```
/*Calculate the percentage contribution of each pizza type to total revenue.*/
```

```
select pizza_types.category,(sum(order_details.quantity*pizzas.price) / (SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2)  
FROM  
    order_details  
    JOIN  
        pizzas ON order_details.pizza_id = pizzas.pizza_id))*100 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  | 26.90596025566967  |                                                                                     |                                                                                                  |
|             | Supreme  | 25.45631126009862  |                                                                                     |                                                                                                  |
|             | Chicken  | 23.955137556847287 |                                                                                     |                                                                                                  |
|             | Veggie   | 23.682590927384577 |                                                                                     |                                                                                                  |





```
/*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 | 2713.8500000000000004 |              |
|             | 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              |              |
| Result 20   |            |                       | ×            |





```
/*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 | 2713.8500000000000004 |              |
|             | 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              |              |
| Result 20   |            |                       | ×            |





