

The dataset describes the sale of Microsoft Azure products in 2022. The **Dim_products** table presents Azure products, along with their categories and prices, while **fact_contracts** describes contracts for selling products to customers.

The dataset contains two tables:

- fact_contracts (customer_id, product_id, obtention_day)
- dim_products (**product_id**, product_category, product_name, price)

fact_contracts :

customer_id: the customer identifier

product_id: the product identifier

obtention_day: the date of the product purchase

dim_products :

product_id: the product identifier

product_category: the category of the product

product_name: the product name

price: the product price in 2022

SQL Questions

Easy Most profitable category

- Select the most profitable product category for Microsoft
(The category with the highest sales revenue)

Medium Month-on-month growth rate

- For each category, find the month-on-month growth rate of every month in 2022.
The m-o-m growth rate is the growth of the revenue of sold products in the current month compared to the previous month.

Medium Supercloud customer

- A Microsoft Azure Supercloud customer is a customer who buys at least 1 product from each product category. Find the number of supercloud customers.

Hard Increasing purchase prices

- Select the ID of the customer who has made at least 4 purchases with strictly increasing prices.

Hints

- 1) The category is: Containers
- 2) The M-o-M of Analytics in February is 8.45
- 3) We have 179 supercloud customers
- 4) the identifier is 1396