--1. Найти ProductSubcategoryID из Production.Product, где мин вес такого ProductSubcategoryID больше 150.

SELECT ProductSubcategoryID

FROM Production.Product

group by ProductSubcategoryID

HAVING MIN(Weight) >= 150

--2. Найти самый дорогой продукт (поле StandardCost) из Production.Product. (4 способа)

--a

SELECT TOP 1 WITH TIES Name, MAX(StandardCost)

FROM Production.Product

GROUP BY Name

ORDER BY MAX(StandardCost) DESC

--b

SELECT Name, StandardCost

FROM Production.Product

WHERE StandardCost =

(SELECT MAX(StandardCost)

FROM Production.Product)

--c

SELECT TOP 1 WITH TIES Name, StandardCost

FROM

(

SELECT Name, StandardCost, RANK() OVER (PARTITION BY Name ORDER BY StandardCost DESC) AS rnk

FROM Production.Product) t

where rnk = 1

ORDER BY StandardCost DESC

-- d

SELECT TOP 1 WITH TIES Name, StandardCost

FROM

(SELECT Name, StandardCost, MAX(StandardCost) OVER (PARTITION BY StandardCost) AS max\_cost

FROM Production.Product) t

where StandardCost = max\_cost

ORDER BY StandardCost DESC

--3. Найти клиентов, которые за последний год не совершили ни одной аренды. (схема GROUP1)

SELECT DimCustomers.Name

FROM DimCustomers

JOIN FctOrders

ON DimCustomers.ID\_Customer = FctOrders.ID\_Customer

WHERE FctOrders.ID\_Customer IS NULL

AND Rent\_date BETWEEN '01/01/2022' AND '12/31/2022'

--4. Найти для каждого сотрудника кол-во ремонтов за последние 5 лет. (схема GROUP1)

SELECT DimEmployees.Full\_name, COUNT(FctMaintenance.ID\_Maintenance) as NumberOfRepairs

FROM DimEmployees

JOIN FctMaintenance

ON DimEmployees.Employee\_number = FctMaintenance.Employee\_number

WHERE FctMaintenance.Start\_date > '01/01/2018'

GROUP BY FctMaintenance.Employee\_number

--5. Найти список категорий для пользователя alex@gmail.com, в которых более 50 непрочитанных нотификаций

SELECT Notifications.category

FROM Notifications

JOIN Users

ON Users.id = Notifications.user\_id

WHERE Users.email = ‘[alex@gmail.com](mailto:alex@gmail.com)’ AND is\_read = false

GROUP BY Notifications.category

HAVING COUNT(Notifications.category) > 50