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Задание 1.

USE Stack;

GO

CREATE FUNCTION select\_orders\_by\_item\_name(@name NVARCHAR(MAX))

RETURNS TABLE AS

RETURN (

SELECT Orders.row\_id AS order\_id, Customers.name AS customer, COUNT(order\_id) AS items\_count

FROM Customers

JOIN Orders JOIN OrderItems ON Orders.row\_id = OrderItems.order\_id ON Customers.row\_id = Orders.customer\_id

WHERE OrderItems.name = @name

GROUP BY Orders.row\_id, Customers.name

);

GO

--EXAMPLE

SELECT \* FROM select\_orders\_by\_item\_name(N'Кассовый аппарат');

Задание 2.

USE Stack;

GO

CREATE FUNCTION calculate\_total\_price\_for\_orders\_group(@par INT)

RETURNS TABLE AS

RETURN(

WITH RecursiveQuery (row\_id, parent\_id, group\_name)

AS(

SELECT row\_id, parent\_id, group\_name

FROM Orders ord

WHERE ord.row\_id = @par

UNION ALL

SELECT ord.row\_id, ord.parent\_id, ord.group\_name

FROM Orders ord

JOIN RecursiveQuery rec ON ord.parent\_id = rec.row\_id

)

SELECT SUM(OrderItems.price) AS total\_price

FROM RecursiveQuery

INNER JOIN OrderItems

ON RecursiveQuery.row\_id=OrderItems.order\_id

);

GO

--EXAMPLE

SELECT \* FROM Stack.dbo.calculate\_total\_price\_for\_orders\_group(1) AS total\_price

Задание 3.

SELECT Customers.name FROM Customers

WHERE Customers.row\_id NOT IN (

SELECT Customers.row\_id

FROM Customers

JOIN Orders JOIN OrderItems ON Orders.row\_id = OrderItems.order\_id ON Customers.row\_id = Orders.customer\_id

WHERE OrderItems.order\_id NOT IN (

SELECT OrderItems.order\_id

FROM OrderItems

WHERE OrderItems.name = 'Кассовый аппарат'

) AND YEAR(Orders.registered\_at) = 2020

GROUP BY Customers.row\_id

)