

```

CREATE PROCEDURE usp_GetOrderID_CustomerID_MinMaxTotalAmount
    @CustomerId INT,
    @MinOrderId INT OUTPUT,
    @MinTotalAmount DECIMAL(12, 2) OUTPUT,
    @MaxOrderId INT OUTPUT,
    @MaxTotalAmount DECIMAL(12, 2) OUTPUT
AS
BEGIN
    WITH CustomerInfo(MinId, MinTotalAmount, MaxId, MaxTotalAmount)
    AS
    (
        SELECT o1.Id, o1.TotalAmount, o2.Id, o2.TotalAmount

        FROM
        (
            SELECT Id, TotalAmount, ROW_NUMBER() OVER (ORDER BY TotalAmount) AS RowNum
            FROM [Order]
            WHERE CustomerId = @CustomerId
        ) o1
        JOIN
        (
            SELECT Id, TotalAmount, ROW_NUMBER() OVER (ORDER BY TotalAmount DESC) AS RowNum
            FROM [Order]
            WHERE CustomerId = @CustomerId
        ) o2
        ON o1.RowNum = o2.RowNum
    )
    SELECT @MinOrderId = MinId, @MinTotalAmount = MinTotalAmount, @MaxOrderId = MaxId, @MaxTotalAmount = MaxTot:
    FROM CustomerInfo
END
DECLARE @CustomerId INT
DECLARE @MinOrderId INT
DECLARE @MinTotalAmount DECIMAL(12, 2)
DECLARE @MaxOrderId INT
DECLARE @MaxTotalAmount DECIMAL(12, 2)
SET @CustomerId = 5
EXEC usp_GetOrderID_CustomerID_MinMaxTotalAmount @CustomerId, @MaxOrderId OUTPUT, @MaxTotalAmount OUTPUT,
    @MinOrderId OUTPUT, @MinTotalAmount OUTPUT

SELECT @CustomerId AS CustomerId, @MinOrderId AS MinOrderId, @MinTotalAmount AS MinTotalAmount,
    @MaxOrderId AS MaxOrderId, @MaxTotalAmount AS MaxTotalAmount

```

CustomerId	MinOrderId	MinTotalAmount	MaxOrderId	MaxTotalAmount
5	531	96.50	425	4210.50

```

CREATE PROCEDURE usp_InsertNewCustomer
    @FirstName NVARCHAR(40),
    @LastName NVARCHAR(40),
    @City NVARCHAR(40),
    @Country NVARCHAR(40),
    @Phone NVARCHAR(20)
AS
BEGIN
    IF(EXISTS(
        SELECT * FROM Customer C
        WHERE FirstName LIKE @FirstName AND LastName LIKE @LastName AND City LIKE @City AND
            Country LIKE @Country AND Phone LIKE @Phone
    ))
    BEGIN
        PRINT N'Khách hàng ' + @FirstName + ' ' + @LastName + ' đã tồn tại'
        RETURN -1
    END

    IF(LEN(@FirstName) = 0 OR LEN(@LastName) = 0 OR LEN(@City) = 0 OR LEN(@Country) = 0 OR LEN(@Phone) = 0)
    BEGIN
        PRINT N'Khách hàng mới không đủ thông tin'
        RETURN -1
    END

    BEGIN TRY
        BEGIN TRANSACTION
        INSERT INTO Customer(FirstName, LastName, City, Country, Phone)
        VALUES (@FirstName, @LastName, @City, @Country, @Phone)
        COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
        IF @@TRANCOUNT > 0 ROLLBACK TRANSACTION
        DECLARE @ERR NVARCHAR(MAX)
        SET @ERR = ERROR_MESSAGE()
        PRINT N'Có lỗi trong quá trình thêm Customer mới'
        RAISERROR(@ERR, 16, 1)
        RETURN -1
    END CATCH
END

DECLARE @StateInsert INT
EXEC @StateInsert = usp_InsertNewCustomer 'Alice', 'Lily', 'Wonderland', 'Fairy Tale', ''
PRINT @StateInsert

```

% |||

Messages

khách hàng mới không đủ thông tin

-1

```

CREATE PROCEDURE usp_UpdateUnitPriceAndTotalAmount
    @OrderId INT,
    @ProductId INT,
    @UnitPrice DECIMAL(12, 2)
AS
BEGIN
    IF (NOT EXISTS(SELECT * FROM OrderItem WHERE OrderId = @OrderId AND ProductId = @ProductId))
    BEGIN
        PRINT 'Khong ton tai trong bang OrderItem record co OrderId = ' + LTRIM(STR(@OrderId)) + ' va ProductId = ' + LTRIM(STR(@ProductId))
        RETURN -1
    END

    BEGIN TRY
        BEGIN TRANSACTION
            UPDATE OrderItem
            SET UnitPrice = @UnitPrice
            WHERE OrderId = @OrderId AND ProductId = @ProductId

            UPDATE [Order]
            SET TotalAmount = (SELECT SUM(UnitPrice * Quantity) FROM OrderItem
                              WHERE OrderId = @OrderId
                              GROUP BY OrderId)

        COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
        IF @@TRANCOUNT > 0 ROLLBACK TRANSACTION
        DECLARE @ERR NVARCHAR(MAX)
        SET @ERR = ERROR_MESSAGE()
        PRINT 'Co loi trong qua trinh them update UnitPrice va TotalAmount'
        RAISERROR(@ERR, 16, 1)
        RETURN -1
    END CATCH
END

```

```

SELECT * FROM OrderItem WHERE OrderId = 261
SELECT * FROM [Order] WHERE Id = 261

DECLARE @StateInsert INT
EXEC @StateInsert = usp_UpdateUnitPriceAndTotalAmount 261, 13, 5.0
PRINT @StateInsert

SELECT * FROM OrderItem WHERE OrderId = 261
SELECT * FROM [Order] WHERE Id = 261

```

90 %

Results

Messages

	Id	OrderId	ProductId	UnitPrice	Quantity
1	682	261	13	6.00	10
2	683	261	39	18.00	10

	Id	OrderDate	OrderNumber	CustomerId	TotalAmount
1	261	2013-04-16 00:00:00.000	542638	56	240.00

	Id	OrderId	ProductId	UnitPrice	Quantity
1	682	261	13	5.00	10
2	683	261	39	18.00	10

	Id	OrderDate	OrderNumber	CustomerId	TotalAmount
1	261	2013-04-16 00:00:00.000	542638	56	230.00