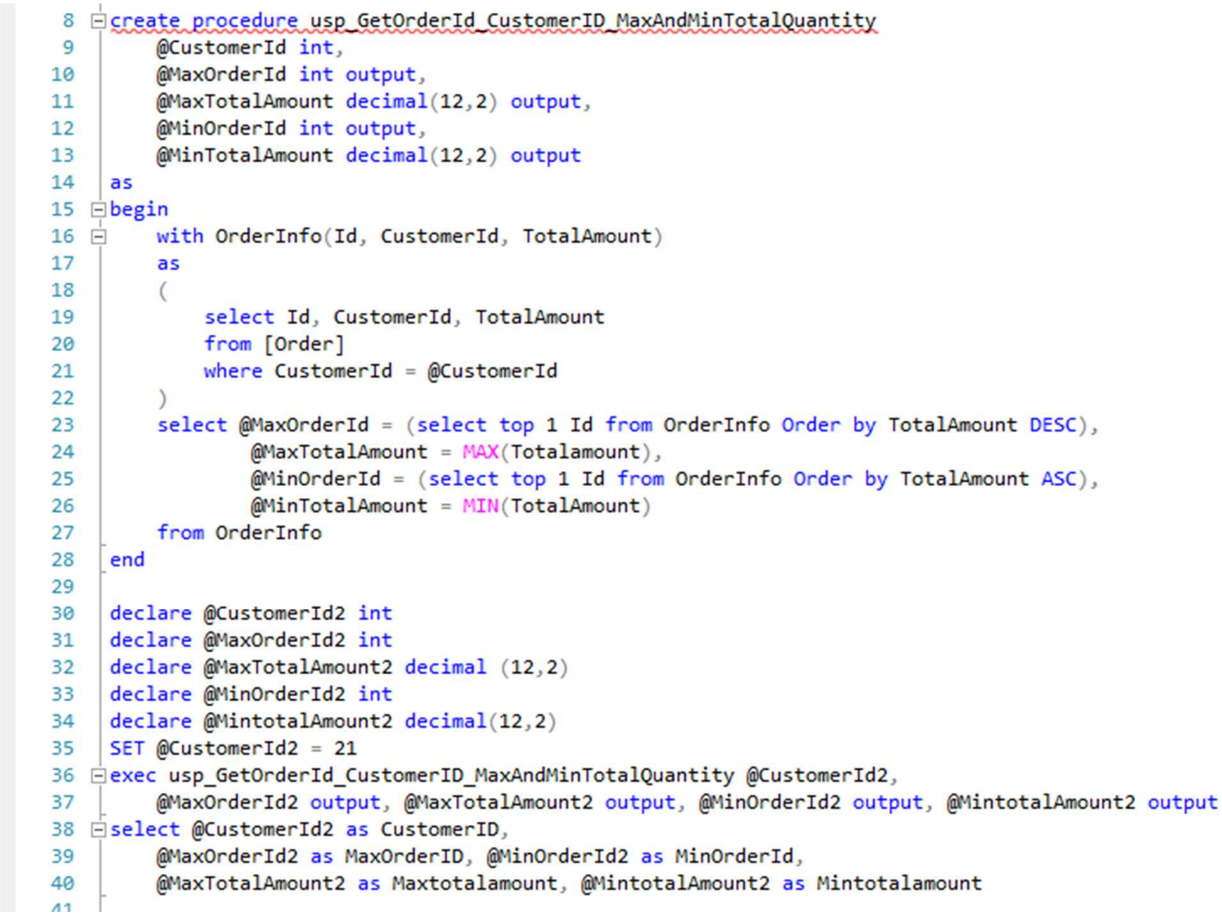
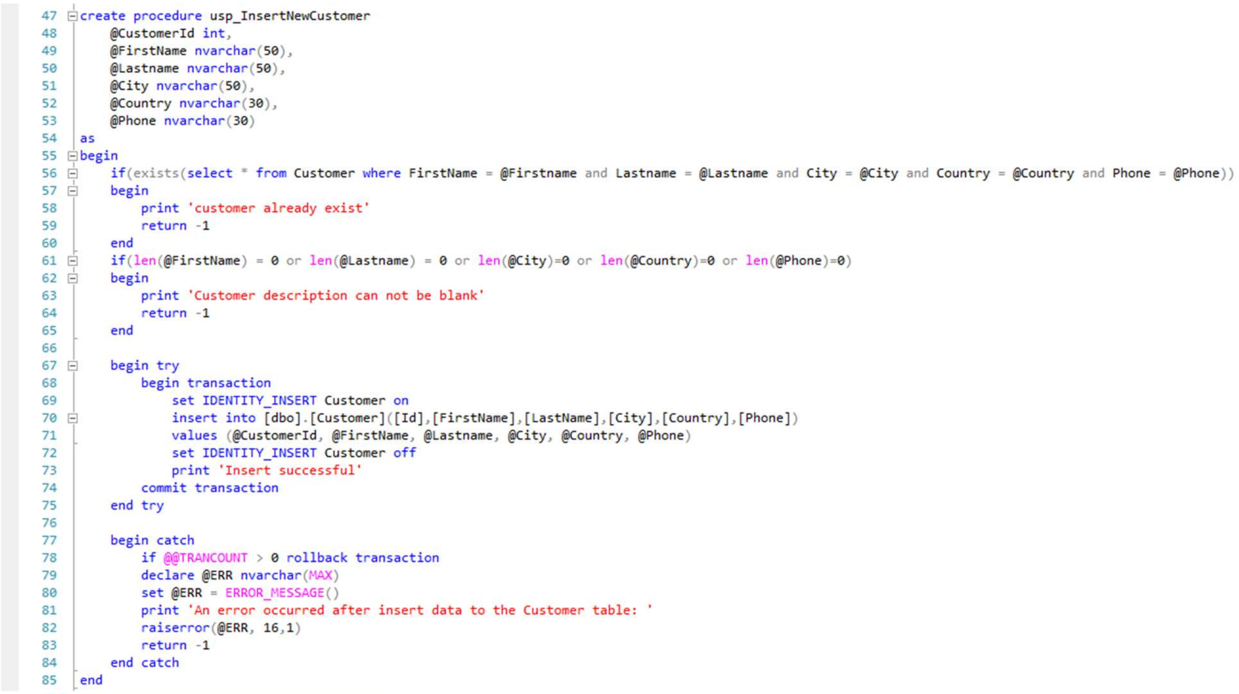
Câu 1



```
create procedure usp_GetOrderId_CustomerID_MaxAndMinTotalQuantity
    @CustomerId int,
    @MaxOrderId int output,
    @MaxTotalAmount decimal(12,2) output,
    @MinOrderId int output,
    @MinTotalAmount decimal(12,2) output
as
begin
    with OrderInfo(Id, CustomerId, TotalAmount)
    as
    (
        select Id, CustomerId, TotalAmount
        from [Order]
        where CustomerId = @CustomerId
    )
    select @MaxOrderId = (select top 1 Id from OrderInfo Order by TotalAmount DESC),
            @MaxTotalAmount = MAX(Totalamount),
            @MinOrderId = (select top 1 Id from OrderInfo Order by TotalAmount ASC),
            @MinTotalAmount = MIN(TotalAmount)
    from OrderInfo
end

declare @CustomerId2 int
declare @MaxOrderId2 int
declare @MaxTotalAmount2 decimal (12,2)
declare @MinOrderId2 int
declare @MintotalAmount2 decimal(12,2)
SET @CustomerId2 = 21
exec usp_GetOrderId_CustomerID_MaxAndMinTotalQuantity @CustomerId2,
    @MaxOrderId2 output, @MaxTotalAmount2 output, @MinOrderId2 output, @MintotalAmount2 output
select @CustomerId2 as CustomerID,
    @MaxOrderId2 as MaxOrderID, @MinOrderId2 as MinOrderId,
    @MaxTotalAmount2 as Maxtotalamount, @MintotalAmount2 as Mintotalamount
```

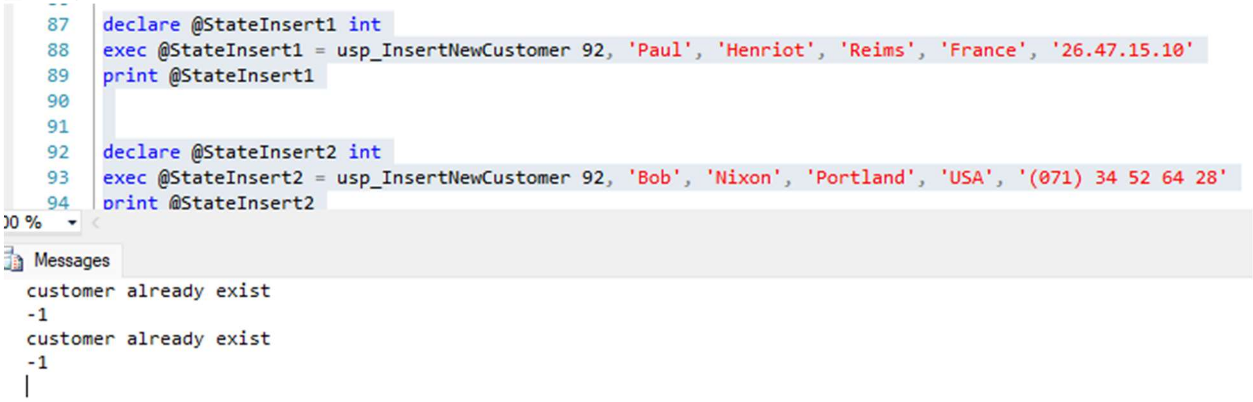
Câu 2



```sql
create procedure usp_InsertNewCustomer
    @CustomerId int,
    @FirstName nvarchar(50),
    @Lastname nvarchar(50),
    @City nvarchar(50),
    @Country nvarchar(30),
    @Phone nvarchar(30)
as
begin
    if(exists(select * from Customer where FirstName = @Firstname and Lastname = @Lastname and City = @City and Country = @Country and Phone = @Phone))
    begin
        print 'customer already exist'
        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 'Customer description can not be blank'
        return -1
    end

    begin try
        begin transaction
            set IDENTITY_INSERT Customer on
            insert into [dbo].[Customer]([Id],[FirstName],[LastName],[City],[Country],[Phone])
            values (@CustomerId, @FirstName, @Lastname, @City, @Country, @Phone)
            set IDENTITY_INSERT Customer off
            print 'Insert successful'
        commit transaction
    end try

    begin catch
        if @@TRANCOUNT > 0 rollback transaction
        declare @ERR nvarchar(MAX)
        set @ERR = ERROR_MESSAGE()
        print 'An error occurred after insert data to the Customer table: '
        raiserror(@ERR, 16,1)
        return -1
    end catch
end
```

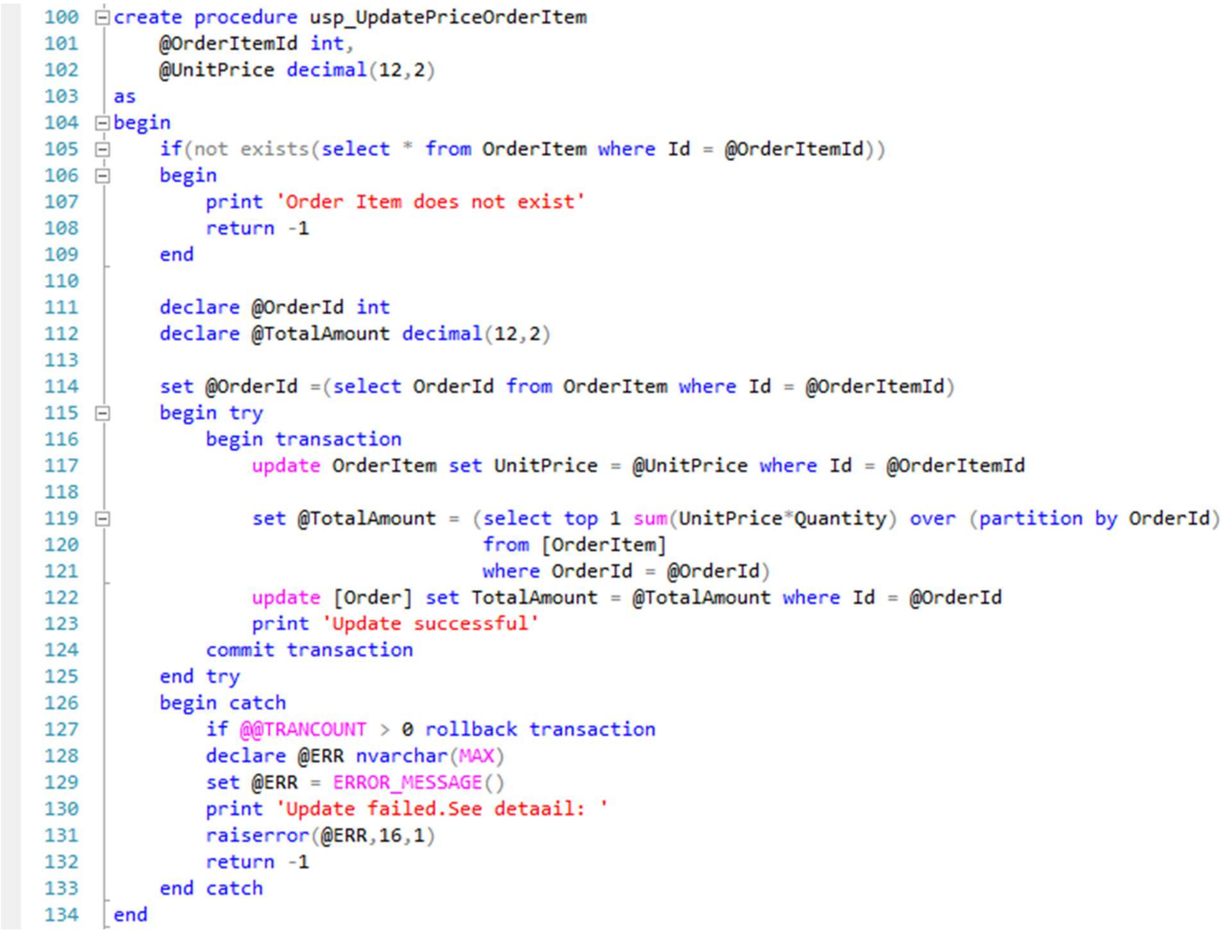


```sql
declare @StateInsert1 int
exec @StateInsert1 = usp_InsertNewCustomer 92, 'Paul', 'Henriot', 'Reims', 'France', '26.47.15.10'
print @StateInsert1


declare @StateInsert2 int
exec @StateInsert2 = usp_InsertNewCustomer 92, 'Bob', 'Nixon', 'Portland', 'USA', '(071) 34 52 64 28'
print @StateInsert2
```

```
customer already exist
-1
customer already exist
-1
```

Câu 3

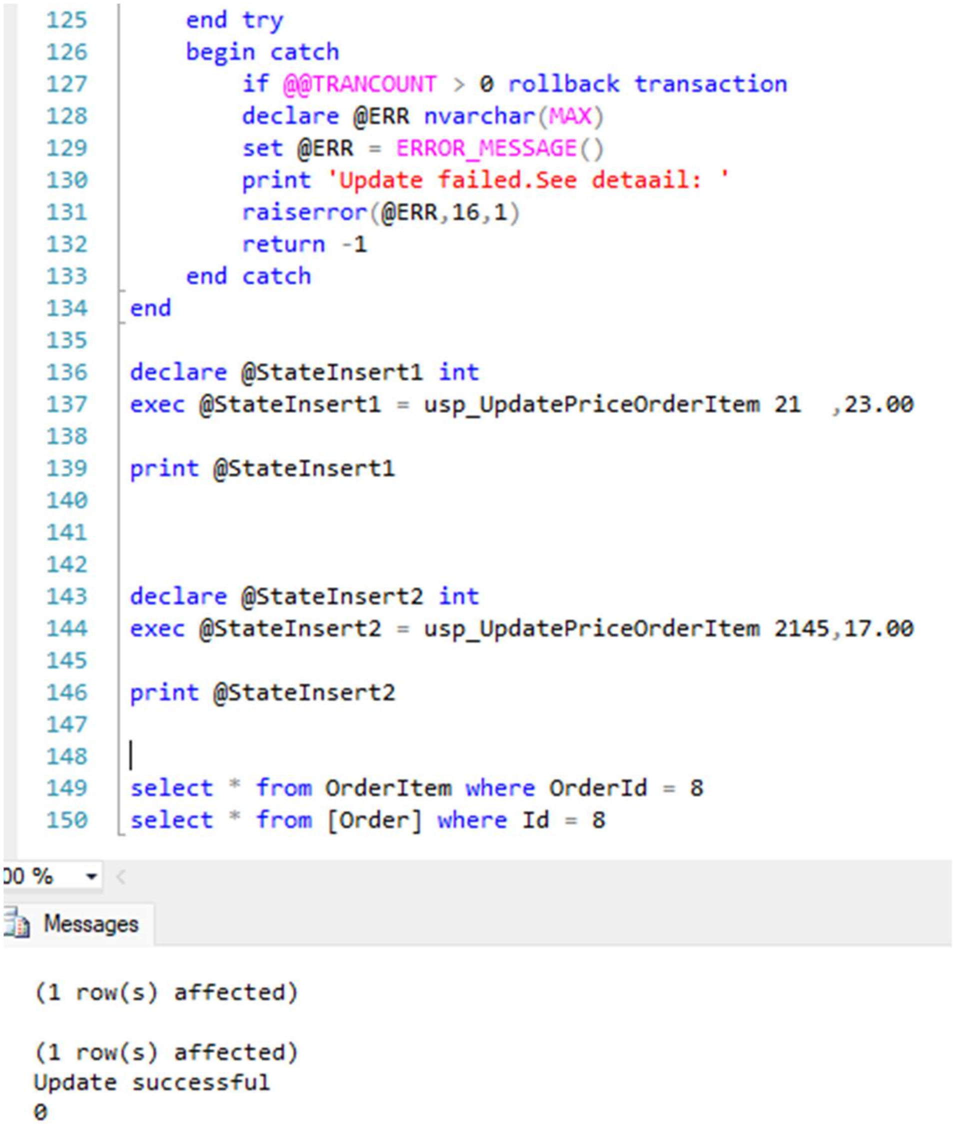


```sql
create procedure usp_UpdatePriceOrderItem
    @OrderItemId int,
    @UnitPrice decimal(12,2)
as
begin
    if(not exists(select * from OrderItem where Id = @OrderItemId))
    begin
        print 'Order Item does not exist'
        return -1
    end

    declare @OrderId int
    declare @TotalAmount decimal(12,2)

    set @OrderId =(select OrderId from OrderItem where Id = @OrderItemId)
    begin try
        begin transaction
            update OrderItem set UnitPrice = @UnitPrice where Id = @OrderItemId

            set @TotalAmount = (select top 1 sum(UnitPrice*Quantity) over (partition by OrderId)
                                from [OrderItem]
                                where OrderId = @OrderId)
            update [Order] set TotalAmount = @TotalAmount where Id = @OrderId
            print 'Update successful'
        commit transaction
    end try
    begin catch
        if @@TRANCOUNT > 0 rollback transaction
        declare @ERR nvarchar(MAX)
        set @ERR = ERROR_MESSAGE()
        print 'Update failed.See detaail: '
        raiserror(@ERR,16,1)
        return -1
    end catch
end
```



```sql
    end try
    begin catch
        if @@TRANCOUNT > 0 rollback transaction
        declare @ERR nvarchar(MAX)
        set @ERR = ERROR_MESSAGE()
        print 'Update failed.See detaail: '
        raiserror(@ERR,16,1)
        return -1
    end catch
end

declare @StateInsert1 int
exec @StateInsert1 = usp_UpdatePriceOrderItem 21  ,23.00

print @StateInsert1



declare @StateInsert2 int
exec @StateInsert2 = usp_UpdatePriceOrderItem 2145,17.00

print @StateInsert2


select * from OrderItem where OrderId = 8
select * from [Order] where Id = 8
```

```
(1 row(s) affected)

(1 row(s) affected)
Update successful
0
```