

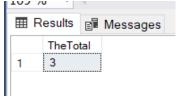
# Exercise

1- Create a function that retrieves the total number of orders.

## **Solution:**

```
CREATE FUNCTION NumOfOrders()
RETURNS int
AS
BEGIN
Declare @TotalNumOfOrders INT
select @TotalNumOfOrders=Count(*)
FROM Orderr
RETURN @TotalNumOfOrders
END

Select dbo.NumOfOrders() as TheTotal;
```



2- Create a function that calculates the multiplication of two numbers.

## **Solution:**

```
CREATE FUNCTION MultiplyTwoNumbers
(@Num1 int, @Num2 int)

RETURNS INT

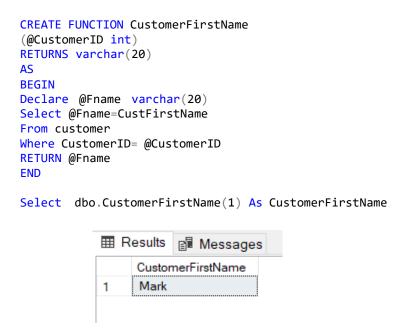
AS
Begin
Declare @Multi INT
Select @Multi=(@Num1*@Num2)

RETURN @Multi
END

Select dbo.MultiplyTwoNumbers (2,5) As Multiplication
```

3- Create a function that retrieve the first name of a customer giving the customer id entered by the user.

#### Solution:



4- Create a function that returns all the customers' first names and their order ids giving the customer id entered by the user.

#### **Solution:**

```
--First solution / scalar function--
CREATE or alter FUNCTION CustomerNameAndOrder (@CustomerID int)
RETURNS varchar(100)
AS
BEGIN
Declare @Fname varchar(100)
Select @Fname=(Select CustFirstName+ ' and the order ID is ' +cast(OrderID
as varchar)
From customer, orderr
Where CustomerID=CID And CustomerID= @CustomerID)
RETURN @Fname
END
Select dbo.CustomerNameAndOrder(1) As CustomerOrder
                CustomerOrder
                     Mark and the order ID is 101
```

```
--Another solution / inline table function--
CREATE FUNCTION CustomerNameAndOrderNew (@CustomerID int)
RETURNS table
AS
return
Select CustFirstName, OrderID
From customer, orderr
Where CustomerID=CID And CustomerID= @CustomerID

Select * from CustomerNameAndOrderNew(1)

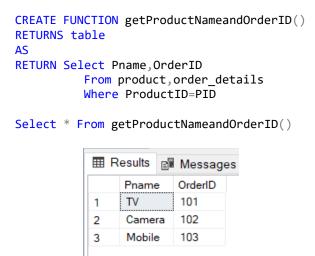
### Results ### Messages

CustFirstName OrderID

1 Mark 101
```

5. Create a function that returns all product names along with their order IDs.

# **Solution:**



Difference between Function and Procedure Useful Link:

https://www.tutorialspoint.com/difference-between-function-and-procedure