Лабораторная работа № 5

Вариант 5

1)

```sql
SELECT p.ListPrice FROM Production.Product p WHERE p.ProductModelID = 1;
GO
```

	ListPrice
1	63,50
2	63,50
3	63,50

```sql
IF OBJECT_ID (N'Production.GetSumOfPriceByModelID') IS NOT NULL
    DROP FUNCTION Production.GetSumOfPriceByModelID;
GO
CREATE FUNCTION Production.GetSumOfPriceByModelID(@id_model INT)
RETURNS MONEY AS
BEGIN
    DECLARE @sum_of_price MONEY;
    SELECT @sum_of_price = SUM(p.ListPrice) FROM Production.Product p WHERE p.ProductModelID = @id_model;
    IF (@sum_of_price IS NULL) SET @sum_of_price = 0;
    RETURN @sum_of_price;
END;
GO

DECLARE @result MONEY;
SElECT @result = Production.GetSumOfPriceByModelID(1);
PRINT @result;
GO
```

Messages

190.50

2)

```sql
SELECT * FROM Sales.SalesOrderHeader s WHERE s.CustomerID = 30084;
GO
SELECT TOP(2) * FROM Sales.SalesOrderHeader s WHERE s.CustomerID = 30084;
GO
```

	SalesOrde...	RevisionNum...	OrderDate	DueDate	ShipDate	Stat...	OnlineOrderF...	SalesOrderNum...	PurchaseOrderNum...	AccountNumbe
1	43685	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43685	PO4176124783	10-4020-00045
2	44310	3	2005-10-01 00:00:00.000	2005-10-13 00:00:00.000	2005-10-08 00:00:00.000	5	0	SO44310	PO4176199014	10-4020-00045
3	45066	3	2006-01-01 00:00:00.000	2006-01-13 00:00:00.000	2006-01-08 00:00:00.000	5	0	SO45066	PO4176112729	10-4020-00045
4	45806	3	2006-04-01 00:00:00.000	2006-04-13 00:00:00.000	2006-04-08 00:00:00.000	5	0	SO45806	PO4176142696	10-4020-00045
5	51162	3	2007-07-01 00:00:00.000	2007-07-13 00:00:00.000	2007-07-08 00:00:00.000	5	0	SO51162	PO4176153007	10-4020-00045
6	55304	3	2007-10-01 00:00:00.000	2007-10-13 00:00:00.000	2007-10-08 00:00:00.000	5	0	SO55304	PO4176184346	10-4020-00045
7	61259	3	2008-01-01 00:00:00.000	2008-01-13 00:00:00.000	2008-01-08 00:00:00.000	5	0	SO61259	PO4176125148	10-4020-00045
8	67340	3	2008-04-01 00:00:00.000	2008-04-13 00:00:00.000	2008-04-08 00:00:00.000	5	0	SO67340	PO4176157624	10-4020-00045

	SalesOrde...	RevisionNum...	OrderDate	DueDate	ShipDate	Stat...	OnlineOrderF...	SalesOrderNum...	PurchaseOrderNum...	AccountNumbe
1	43685	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43685	PO4176124783	10-4020-00045
2	44310	3	2005-10-01 00:00:00.000	2005-10-13 00:00:00.000	2005-10-08 00:00:00.000	5	0	SO44310	PO4176199014	10-4020-00045

Query executed successfully.   DESKTOP-BQ2S6CB\SQLEXPRESS ...   DESKTOP-BQ2S6CB\margo ...   AdventureWorks2012   00:00:00   10 rows

```sql
IF OBJECT_ID (N'Sales.GetLastTwoOrdersBYCustomerID') IS NOT NULL
    DROP FUNCTION Sales.GetLastTwoOrdersBYCustomerID;
GO

CREATE FUNCTION Sales.GetLastTwoOrdersBYCustomerID(@id_customer INT)
RETURNS TABLE AS RETURN (SELECT TOP(2) * FROM Sales.SalesOrderHeader s WHERE s.CustomerID = @id_customer);
GO

SELECT * FROM Sales.GetLastTwoOrdersBYCustomerID(30084);
GO
```

100 % ▾

Results | **Messages**

	SalesOrde...	RevisionNum...	OrderDate	DueDate	ShipDate	Stat...	OnlineOrderF...	SalesOrderNum...	PurchaseOrderNum...	AccountNumbe
1	43685	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43685	PO4176124783	10-4020-0004!
2	44310	3	2005-10-01 00:00:00.000	2005-10-13 00:00:00.000	2005-10-08 00:00:00.000	5	0	SO44310	PO4176199014	10-4020-0004!

3)

```sql
SELECT x.* FROM Sales.Customer c CROSS APPLY (SELECT * FROM Sales.GetLastTwoOrdersBYCustomerID(c.CustomerID)) x;
GO

SELECT x.* FROM Sales.Customer c OUTER APPLY (SELECT * FROM Sales.GetLastTwoOrdersBYCustomerID(c.CustomerID)) x;
GO
```

100 % ▾

Results | **Messages**

	SalesOrde...	RevisionNum...	OrderDate	DueDate	ShipDate	Stat...	OnlineOrderF...	SalesOrderNum...	Purcha
1	54508	3	2007-09-17 00:00:00.000	2008-04-29 00:00:00.000	2007-09-24 00:00:00.000	5	1	SO54508	NULL
2	68413	3	2008-04-17 00:00:00.000	2008-04-29 00:00:00.000	2008-04-24 00:00:00.000	5	1	SO68413	NULL
3	56137	3	2007-10-15 00:00:00.000	2007-10-27 00:00:00.000	2007-10-22 00:00:00.000	5	1	SO56137	NULL
4	74908	3	2008-07-24 00:00:00.000	2008-08-05 00:00:00.000	2008-07-31 00:00:00.000	5	1	SO74908	NULL
5	54898	3	2007-09-24 00:00:00.000	2007-10-06 00:00:00.000	2007-10-01 00:00:00.000	5	1	SO54898	NULL

	SalesOrde...	RevisionNum...	OrderD...	DueD...	ShipD...	Status	OnlineOrderF...	SalesOrderNum...	PurchaseOrderNum...	AccountNum...	Customer...	Sal
24...	72689	3	2008-0...	2008-...	2008-...	5	1	SO72689	NULL	10-4030-013...	13412	NU
24...	73548	3	2008-0...	2008-...	2008-...	5	1	SO73548	NULL	10-4030-013...	13412	NU
24...	55069	3	2007-0...	2007-...	2007-...	5	1	SO55069	NULL	10-4030-013...	13493	NU
24...	56737	3	2007-1...	2007-...	2007-...	5	1	SO56737	NULL	10-4030-013...	13493	NU

Query executed successfully. ... DESKTOP-RO2S6GP\SQLEXPRESS ... DESKTOP-RO2S6GP\marco ... AdventureWc

4)

```sql
GO
CREATE FUNCTION Sales.GetLastTwoOrdersBYCustomerID(@CustomerID INT)
RETURNS @ret TABLE([SalesOrderID] [int] NOT NULL,
    [RevisionNumber] [tinyint] NOT NULL,
    [OrderDate] [datetime] NOT NULL,
    [DueDate] [datetime] NOT NULL,
    [ShipDate] [datetime] NULL,
    [Status] [tinyint] NOT NULL,
    [OnlineOrderFlag] [dbo].[Flag] NOT NULL,
    [SalesOrderNumber] [nvarchar](23),
    [PurchaseOrderNumber] [dbo].[OrderNumber] NULL,
    [AccountNumber] [dbo].[AccountNumber] NULL,
    [CustomerID] [int] NOT NULL,
    [SalesPersonID] [int] NULL,
    [TerritoryID] [int] NULL,
    [BillToAddressID] [int] NOT NULL,
    [ShipToAddressID] [int] NOT NULL,
    [ShipMethodID] [int] NOT NULL,
    [CreditCardID] [int] NULL,
    [CreditCardApprovalCode] [varchar](15) NULL,
    [CurrencyRateID] [int] NULL,
    [SubTotal] [money] NOT NULL ,
    [TaxAmt] [money] NOT NULL,
    [Freight] [money] NOT NULL,
    [TotalDue] INT NOT NULL,
    [Comment] [nvarchar](128) NULL,
    [rowguid] [uniqueidentifier] ROWGUIDCOL  NOT NULL,
    [ModifiedDate] [datetime] NOT NULL ) AS BEGIN
    INSERT INTO @ret
    SELECT TOP(2) *
    FROM Sales.SalesOrderHeader AS s
    WHERE s.CustomerID = @CustomerID
    ORDER BY s.OrderDate DESC
    RETURN;
END;
GO
```

91 % ▾

Messages

✅ Query executed successfully. | DES