

Лабораторная работа №5

Вариант 6

```
lab5_var6_1.sql - Т...дислав Фролов (67)
use AdventureWorks2012;
go

drop function if exists Sales.CalculateTotalPrice;
go

/*
*Создайте scalar-valued функцию, которая будет принимать в качестве входного параметра
*id заказа (Sales.SalesOrderHeader.SalesOrderID) и
*возвращать итоговую сумму для заказа (сумма по полям SubTotal, TaxAmt, Freight).
*/
create function Sales.CalculateTotalPrice(@SalesOrderID int)
returns money
as
begin
    return (select (SUM(so.SubTotal) + SUM(so.TaxAmt) + SUM(so.Freight))
            from Sales.SalesOrderHeader as so
            where so.SalesOrderID = @SalesOrderID);
end;
go
```

100 %

Messages

Commands completed successfully.

100 %

Query executed successfully. | TANKER\SQLEXPRESS (14.0 RTM) | TANKER\Владислав Фроло... | AdventureWorks2012 | 00:00:00 | 0 rows

```
lab5_var6_1.sql - Т...дислав Фролов (67)
drop function if exists Production.GetOrderDetailsByID;
go

/*
*Создайте inline table-valued функцию, которая будет принимать в качестве входного параметра
*id заказа на производство (Production.WorkOrder.WorkOrderID), а возвращать детали заказа из
*Production.WorkOrderRouting.
*/
create function Production.GetOrderDetailsByID(@WorkOrderID int)
returns table as return (
    select
        WorkOrderID,
        ProductID,
        OperationSequence,
        LocationID,
        ScheduledStartDate,
        ScheduledEndDate,
        ActualStartDate,
        ActualEndDate,
        ActualResourceHrs,
        PlannedCost,
        ActualCost,
        ModifiedDate
    from Production.WorkOrderRouting
    where Production.WorkOrderRouting.WorkOrderID = @WorkOrderID
);
go
```

100 %

Messages

100 %

Query executed successfully. | TANKER\SQLEXPRESS (14.0 RTM) | TANKER\Владислав Фроло... | AdventureWorks2012 | 00:00:02 | 0 rows

lab5_var6_1.sql - Т...дслав Фролов (67) X

```

/*
*Вызовите функцию для каждого заказа, применив оператор CROSS APPLY.
*Вызовите функцию для каждого заказа, применив оператор OUTER APPLY.
*/
select * from Sales.SalesOrderHeader CROSS APPLY (select Sales.CalculateTotalPrice(SalesOrderID) 'Total price') as tp;
select * from Sales.SalesOrderHeader OUTER APPLY (select Sales.CalculateTotalPrice(SalesOrderID) 'Total price') as tp;
go

select * from Production.WorkOrder CROSS APPLY Production.GetOrderDetailsByID(WorkOrderID);
select * from Production.WorkOrder OUTER APPLY Production.GetOrderDetailsByID(WorkOrderID);
go

drop function if exists Production.GetOrderDetailsByID;
go

/*
*Измените созданную inline table-valued функцию, сделав ее multistatement table-valued
*(предварительно сохранив для проверки код создания inline table-valued функции).
*/

```

100 %

Results Messages

	SalesOrderID	RevisionNumber	OrderDate	DueDate	ShipDate	Status	OnlineOrderFlag	SalesOrderNumber	PurchaseOrderNumber
1	43659	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43659	PO522145787
2	43660	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43660	PO18850127500
3	43661	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43661	PO18473189620
4	43662	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43662	PO18444174044
5	43663	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43663	PO18009186470
6	43664	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43664	PO16617121983
7	43665	3	2005-07-01 00:00:00.000	2005-07-13 00:00:00.000	2005-07-08 00:00:00.000	5	0	SO43665	PO16588191572

Query executed successfully. TANKER\SQLEXPRESS (14.0 RTM) TANKER\Владислав Фроло... AdventureWorks2012 00:00:08 227158 rows

lab5_var6_1.sql - Т...дслав Фролов (67) X

```

drop function if exists Production.GetOrderDetailsByID;
go

/*
*Измените созданную inline table-valued функцию, сделав ее multistatement table-valued
*(предварительно сохранив для проверки код создания inline table-valued функции).
*/
create function Production.GetOrderDetailsByID(@WorkOrderID int)
returns @result table(
    WorkOrderID int not null,
    ProductID int not null,
    OperationSequence smallint not null,
    LocationID smallint not null,
    ScheduledStartDate datetime not null,
    ScheduledEndDate datetime not null,
    ActualStartDate datetime null,
    ActualEndDate datetime null,
    ActualResourceHrs decimal(9, 4) null,
    PlannedCost money not null,
    ActualCost money null,
    ModifiedDate datetime not null
) as begin
    insert into @result
    select
        WorkOrderID,
        ProductID,
        OperationSequence,

```

100 %

Messages

100 %

Query executed successfully. TANKER\SQLEXPRESS (14.0 RTM) TANKER\Владислав Фроло... AdventureWorks2012 00:00:00 0 rows