Задание:

1:

```sql
CREATE FUNCTION Sales.GetSpecialOfferStartDate(@SpecialOfferID INT) RETURNS NVARCHAR(50) AS
BEGIN
    DECLARE @date datetime
    SELECT @date = StartDate
    FROM Sales.SpecialOffer AS so
    WHERE so.SpecialOfferID = @SpecialOfferID

    RETURN FORMAT(@date, 'MMMM, dd. dddd')
END;
GO

SELECT Sales.GetSpecialOfferStartDate (1);
```

(No column name)
June, 01. Wednesday

2:

```sql
CREATE FUNCTION Sales.GetSpecialOfferProducts(@SpecialOfferID INT)
RETURNS TABLE AS
RETURN
    SELECT product.ProductID, product.Name
    FROM Sales.SpecialOfferProduct AS sop
    INNER JOIN Production.Product AS product
        ON product.ProductID = sop.ProductID
    WHERE sop.SpecialOfferID = @SpecialOfferID;
GO

SELECT *
FROM Sales.GetSpecialOfferProducts(1);
GO
```

	ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel	ReorderPoint	StandardCost	ListPrice	Size	SizeUnitMeasureCode	WeightUnitMeasureCode	Weigh
11	708	Sport-100 Helmet, Black	HL-U509	0	1	Black	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
12	708	Sport-100 Helmet, Black	HL-U509	0	1	Black	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
13	709	Mountain Bike Socks, M	SO-B909-M	0	1	White	4	3	3.3963	9.50	M	NULL	NULL	NULL
14	709	Mountain Bike Socks, M	SO-B909-M	0	1	White	4	3	3.3963	9.50	M	NULL	NULL	NULL
15	709	Mountain Bike Socks, M	SO-B909-M	0	1	White	4	3	3.3963	9.50	M	NULL	NULL	NULL
16	709	Mountain Bike Socks, M	SO-B909-M	0	1	White	4	3	3.3963	9.50	M	NULL	NULL	NULL
17	710	Mountain Bike Socks, L	SO-B909-L	0	1	White	4	3	3.3963	9.50	L	NULL	NULL	NULL
18	711	Sport-100 Helmet, Blue	HL-U509-B	0	1	Blue	4	3	13.0863	34.99	NULL	NULL	NULL	NULL

3:

```sql
SELECT * FROM Sales.SpecialOffer CROSS APPLY Sales.GetSpecialOfferProducts(SpecialOfferID);
SELECT * FROM Sales.SpecialOffer OUTER APPLY Sales.GetSpecialOfferProducts(SpecialOfferID);
GO




DROP FUNCTION Sales.GetSpecialOfferProducts;
GO
```

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Results | Messages

	SpecialOfferID	Description	DiscountPct	Type	Category	StartDate	EndDate	MinQty	MaxQty	rowguid	ModifiedDate	Produc
10	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	708
11	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	708
12	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	708
13	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	709
14	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	709
15	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	709
16	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	709
17	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	710

	SpecialOfferID	Description	DiscountPct	Type	Category	StartDate	EndDate	MinQty	MaxQty	rowguid	ModifiedDate	Produc
1	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	680
2	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	706
3	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	707
4	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	707
5	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	707
6	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	707
7	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	707
8	1	No Discount	0.00	No Discount	No Discount	2005-06-01 00:00:00.000	2008-12-31 00:00:00.000	0	NULL	0290C4F5-191F-4337-AB6B-0A2DDE03CBF9	2005-05-02 00:00:00.000	708

4:

```sql
CREATE FUNCTION Sales.GetSpecialOfferProducts(@SpecialOfferID INT)
RETURNS @result TABLE (
    ProductID int NOT NULL,
    Name dbo.Name NOT NULL,
    ProductNumber nvarchar(25) NOT NULL,
    MakeFlag dbo.Flag NOT NULL,
    FinishedGoodsFlag dbo.Flag NOT NULL,
    Color nvarchar(15) NULL,
    SafetyStockLevel smallint NOT NULL,
    ReorderPoint smallint NOT NULL,
    StandardCost money NOT NULL,
    ListPrice money NOT NULL,
    Size nvarchar(5) NULL,
    SizeUnitMeasureCode nchar(3) NULL,
    WeightUnitMeasureCode nchar(3) NULL,
    Weight decimal(8, 2) NULL,
    DaysToManufacture int NOT NULL,
    ProductLine nchar(2) NULL,
    Class nchar(2) NULL,
    Style nchar(2) NULL,
    ProductSubcategoryID int NULL,
    ProductModelID int NULL,
    SellStartDate datetime NOT NULL,
```

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Results | Messages

	ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel	ReorderPoint	StandardCost	ListPrice	Size	SizeUnitMeasureCode	WeightUnitMeasureCode	Weight
1	680	HL Road Frame - Black, 58	FR-R92B-58	1	1	Black	500	375	1059.31	1431.50	58	CM	LB	2.24
2	706	HL Road Frame - Red, 58	FR-R92R-58	1	1	Red	500	375	1059.31	1431.50	58	CM	LB	2.24
3	707	Sport-100 Helmet, Red	HL-U509-R	0	1	Red	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
4	707	Sport-100 Helmet, Red	HL-U509-R	0	1	Red	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
5	707	Sport-100 Helmet, Red	HL-U509-R	0	1	Red	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
6	707	Sport-100 Helmet, Red	HL-U509-R	0	1	Red	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
7	707	Sport-100 Helmet, Red	HL-U509-R	0	1	Red	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
8	708	Sport-100 Helmet, Black	HL-U509	0	1	Black	4	3	13.0863	34.99	NULL	NULL	NULL	NULL
9	708	Sport-100 Helmet, Black	HL-U509	0	1	Black	4	3	13.0863	34.99	NULL	NULL	NULL	NULL