

1

The screenshot shows the SQL Server Enterprise Manager interface on the left and a SQL Query window on the right. The Object Explorer on the left shows the database structure for 'MSI (SQL Server 15.0.2000 - MSI\THE VINH)', including databases, tables, and functions. The SQL Query window displays the following code:

```
go
CREATE FUNCTION fn_hangsx_masp (@masp VARCHAR(50))
RETURNS VARCHAR(50)
AS
BEGIN
    DECLARE @hangsx VARCHAR(50)
    SELECT @hangsx = h.tenhang
    FROM Sanpham s
    JOIN Hangsx h ON s.mahangsx = h.mahangsx
    WHERE s.masp = @masp

    RETURN @hangsx
END
go
go
SELECT dbo.fn_hangsx_masp('SP01')
go
```

Below the code, the 'Results' tab shows a single row with the value 'OPPO' under the column '(No column name)'.

2

The screenshot shows the SQL Server Enterprise Manager interface on the left and a SQL Query window on the right. The Object Explorer on the left shows the database structure for 'MSI (SQL Server 15.0.2000 - MSI\THE VINH)', including databases, tables, and functions. The SQL Query window displays the following code:

```
go
CREATE FUNCTION Tonggiatrinhap(@namx INT, @namy INT)
RETURNS MONEY
AS
BEGIN
    DECLARE @TongGiaTriNhap MONEY
    SELECT @TongGiaTriNhap = SUM(dongiaN * soluongN)
    FROM Nhap
    WHERE YEAR(ngaynhap) BETWEEN @namx AND @namy
    RETURN @TongGiaTriNhap
END
go
go
SELECT dbo.Tonggiatrinhap(2016,2019)
go
```

3

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

Databases

System Databases

Database Snapshots

QLBanHang

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Hangsx

dbo.Nhanvien

dbo.Nhap

dbo.Sanpham

dbo.Xuat

Views

External Resources

Synonyms

Programmability

Stored Procedures

Functions

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION tksoLuongNhapxuat(@tenSanPham nvarchar(50), @nam int)
RETURNS int
AS
BEGIN
    DECLARE @soLuongNhap int, @soLuongXuat int, @soLuongThayDoi int;
    SELECT @soLuongNhap = SUM(soLuongN) FROM Nhap n JOIN Sanpham sp ON n.masp = sp.masp WHERE sp.tensp = @tenSanPham AND YEAR(n.ngayNhap) = @nam;
    SELECT @soLuongXuat = SUM(soLuongX) FROM Xuat x JOIN Sanpham sp ON x.masp = sp.masp WHERE sp.tensp = @tenSanPham AND YEAR(x.ngayXuat) = @nam;
    SET @soLuongThayDoi = @soLuongNhap - @soLuongXuat;
    RETURN @soLuongThayDoi;
END
go
go
SELECT dbo.tksoLuongNhapxuat('Galaxy Note 11', 2020)
go

```

90 %

Results Messages

(No column name)

1	NULL
---	------

4

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

Databases

System Databases

Database Snapshots

QLBanHang

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Hangsx

dbo.Nhanvien

dbo.Nhap

dbo.Sanpham

dbo.Xuat

Views

External Resources

Synonyms

Programmability

Stored Procedures

Functions

Table-valued Functions

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION tonggiatrinhapngay(
    @ngay_bat_dau DATE,
    @ngay_ket_thuc DATE
)
RETURNS MONEY
AS
BEGIN
    DECLARE @tong_gia_tri_nhap MONEY;
    SELECT @tong_gia_tri_nhap = SUM(nhap.soluongN * sanpham.giaban)
    FROM Nhap AS nhap
    INNER JOIN Sanpham AS sanpham ON nhap.masp = sanpham.masp
    WHERE nhap.ngayNhap >= @ngay_bat_dau AND nhap.ngayNhap <= @ngay_ket_thuc;
    RETURN @tong_gia_tri_nhap;
END;
go
go
SELECT dbo.tonggiatrinhapngay('2018-01-01', '2020-12-31') AS TongGiaTriNhap;
go

```

90 %

Results Messages

	TongGiaTriNhap
1	336000000.00

5

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

Databases

System Databases

Database Snapshots

QLBanHang

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Hangsx

dbo.Nhanvien

dbo.Nhap

dbo.Sanpham

dbo.Xuat

Views

External Resources

Synonyms

Programmability

Stored Procedures

Functions

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION tonggiatrixuat(@tenHang NVARCHAR(20), @nam INT)
RETURNS MONEY
AS
BEGIN
    DECLARE @tongGiaTriXuat MONEY;
    SELECT @tongGiaTriXuat = SUM(S.giaban * X.soluongX)
    FROM Xuat X
    JOIN Sanpham S ON X.masp = S.masp
    JOIN Hangsx H ON S.mahangsx = H.mahangsx
    WHERE H.tenhang = @tenHang AND YEAR(X.ngayxuat) = @nam;
    RETURN @tongGiaTriXuat;
END;
go
go
SELECT dbo.tonggiatrixuat(N'Samsung', 2020) AS 'TongGiaTriXuat';
go

```

90 %

Results Messages

	TongGiaTriXuat
1	15000000.00

6

The screenshot shows the SQL Server Enterprise Manager interface on the left, displaying the database structure for 'MSI (SQL Server 15.0.2000 - MSI\THE VINH)'. The right pane shows a SQL Query window with the following code:

```

go
CREATE FUNCTION tksoLuongnv(@tenPhong NVARCHAR(30))
RETURNS TABLE
AS
RETURN
SELECT phong, COUNT(manv) AS soLuongNhanVien
FROM Nhanvien
WHERE phong = @tenPhong
GROUP BY phong;
go
go
SELECT * FROM tksoLuongnv(N'Vật tư')
go

```

The Results pane at the bottom shows the output of the query:

phong	soLuongNhanVien
Vật tư	1

7

The screenshot shows the SQL Server Enterprise Manager interface on the left, displaying the database structure for 'MSI (SQL Server 15.0.2000 - MSI\THE VINH)'. The right pane shows a SQL Query window with the following code:

```

go
CREATE FUNCTION tktensp_xuat(@ten_sp NVARCHAR(20), @ngay_xuat DATE)
RETURNS INT
AS
BEGIN
DECLARE @so_luong_xuat INT
SELECT @so_luong_xuat = SUM(soLuongX)
FROM Xuat x JOIN Sanpham sp ON x.masp = sp.masp
WHERE sp.tensp = @ten_sp AND x.ngayxuat = @ngay_xuat
RETURN @so_luong_xuat
END
go
go
SELECT dbo.tktensp_xuat('Samsung', '12-12-2020')
go

```

The Results pane at the bottom shows the output of the query:

(No column name)
1

8

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

- Databases
 - System Databases
 - Database Snapshots
 - QLBanHang
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Hangsx
 - dbo.Nhanvien
 - dbo.Nhap
 - dbo.Sanpham
 - dbo.Xuat
 - Views
 - External Resources
 - Synonyms
 - Programmability

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION sdtNVxuatHoadon (@InvoiceNumber NCHAR(10))
RETURNS NVARCHAR(20)
AS
BEGIN
    DECLARE @EmployeePhone NVARCHAR(20)
    SELECT @EmployeePhone = Nhanvien.sdt
    FROM Nhanvien
    INNER JOIN Xuat ON Nhanvien.manv = Xuat.manv
    WHERE Xuat.sohdx = @InvoiceNumber
    RETURN @EmployeePhone
END
go
go
SELECT dbo.sdtNVxuatHoadon('X01')
go

```

90 %

Results Messages

(No column name)
1 0972525252

9

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

- Databases
 - System Databases
 - Database Snapshots
 - QLBanHang
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Hangsx
 - dbo.Nhanvien
 - dbo.Nhap
 - dbo.Sanpham
 - dbo.Xuat
 - Views
 - External Resources
 - Synonyms
 - Programmability

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION tongSignhapXuat(@tenSP NVARCHAR(20), @nam INT)
RETURNS INT
AS
BEGIN
    DECLARE @tongNhapXuat INT;
    SET @tongNhapXuat = (
        SELECT COALESCE(SUM(nhap.soluongN), 0) + COALESCE(SUM(xuat.soluongX), 0) AS tongSoLuong
        FROM Sanpham sp
        LEFT JOIN Nhap nhap ON sp.masp = nhap.masp
        LEFT JOIN Xuat xuat ON sp.masp = xuat.masp
        WHERE sp.tensp = @tenSP AND YEAR(nhap.ngayNhap) = @nam AND YEAR(xuat.ngayXuat) = @nam
    );
    RETURN @tongNhapXuat;
END;
go
go
SELECT dbo.tongSignhapXuat('Galaxy V21', 2020) AS TongNhapXuat;
go

```

90 %

Results Messages

TongNhapXuat
1 21

10

Object Explorer

Connect

MSI (SQL Server 15.0.2000 - MSI\THE VINH)

- Databases
 - System Databases
 - Database Snapshots
 - QLBanHang
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Hangsx
 - dbo.Nhanvien
 - dbo.Nhap
 - dbo.Sanpham
 - dbo.Xuat
 - Views
 - External Resources
 - Synonyms
 - Programmability

SQLQuery7.sql - M...MSI\THE VINH (63))*

```

go
CREATE FUNCTION tktongSlsphang(@tenhang NVARCHAR(20))
RETURNS INT
AS
BEGIN
    DECLARE @soluong INT;
    SELECT @soluong = SUM(soluong)
    FROM Sanpham sp JOIN Hangsx hs ON sp.mahangsx = hs.mahangsx
    WHERE hs.tenhang = @tenhang;
    RETURN @soluong;
END;
go
go
SELECT dbo.tktongSlsphang('Samsung') AS 'Tổng số lượng sản phẩm của hãng'
go

```

90 %

Results Messages

Tổng số lượng sản phẩm của hãng
1 600