## Лабораторная работа №6

## 7 вариант

Создайте хранимую процедуру, которая будет возвращать сводную таблицу (оператор **PIVOT**), отображающую данные о количестве сотрудников (**HumanResources.Employee**) работающих в определенную смену (**HumanResources.Shift**). Вывести информацию необходимо для каждого отдела (**HumanResources.Department**). Список названий смен передайте в процедуру через входной параметр.

```
□IF OBJECT_ID (N'dbo.uspGetEmpCountByShift') IS NOT NULL
    DROP PROCEDURE dbo.uspGetEmpCountByShift;
 GO
□CREATE PROCEDURE dbo.uspGetEmpCountByShift (@Shifts NVARCHAR(MAX))
     DECLARE @sql NVARCHAR(MAX) = "
BEGIN
         SET @sql = '
         SELECT * FROM (
             SELECT
                 Employee.BusinessEntityID,
                 Department.Name AS DepName,
                 HumarResourcesShift.Name AS ShiftName
             FROM HumanResources.EmployeeDepartmentHistory AS EmployeeDepartmentHistory
                INNER JOIN HumanResources. Employee AS Employee
                     ON EmployeeDepartmentHistory.BusinessEntityID = Employee.BusinessEntityID
                 INNER JOIN HumanResources.Department AS Department
                    ON EmployeeDepartmentHistory.DepartmentID = Department.DepartmentID
                 INNER JOIN HumanResources.Shift AS HumarResourcesShift
                     {\tt ON \ EmployeeDepartmentHistory.ShiftID = HumarResourcesShift.ShiftID}
                         WHERE EmployeeDepartmentHistory.EndDate IS NULL
         ) AS DepShiftTable
         PIVOT (
             COUNT(BusinessEntityID) FOR ShiftName IN ('+ @Shifts + ')
         ) AS EmpCountShiftTable;
     EXECUTE sp_executesql @sql;
 END
 GO
```

## Результат создания:

```
    ■ DESKTOP-L39DT9G (SQL Server 15.0.2000.5 - DESKTOP-L39DT9G\mar △
                                                                      Список названий смен передайте в процедуру через входной параметр. */

    □ ■ Databases

  ⊞ ■ System Databases
  ☐IF OBJECT_ID (N'dbo.uspGetEmpCountByShift') IS NOT NULL DROP PROCEDURE dbo.uspGetEmpCountByShift;
  ■ AdventureWorks2012
                                                                      GO

    Database Diagrams

     CREATE PROCEDURE dbo.uspGetEmpCountByShift (@Shifts NVARCHAR(MAX))
     DECLARE @sql NVARCHAR(MAX) = ''
     BEGIN
                                                                             SET @sql = '
SELECT * FROM (

■ Programmability

       SELECT
                                                                                     Employee.BusinessEntityID,
Department.Name AS DepName,
HumarResourcesShift.Name AS ShiftName

    ■ System Stored Procedures

         FROM HumanResources.EmployeeDepartmentHistory AS EmployeeDepartmentHistory
INNER JOIN HumanResources.Employee AS Employee
ON EmployeeDepartmentHistory.BusinessEntityID = Employee.BusinessEntityID
INNER JOIN HumanResources.Department AS Department
       ON EmployeeDepartmentHistory.DepartmentID = Department.DepartmentID INNER JOIN HumanResources.Shift AS HumarResourcesShift ON EmployeeDepartmentHistory.ShiftID + HumarResourcesShift.ShiftID + WHERE EmployeeDepartmentHistory.EndDate IS NULL
         ) AS DepShiftTable
                                                                              ) AS Departments

COUNT(BusinessEntityID) FOR ShiftName IN ('+ @Shifts + ')

AS EmpCountShiftTable;
         EXECUTE sp_executesql @sql;
       ⊞ ■ Types
                                                                  82 %
       ⊞ ■ Rules

    Messages

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                                                                       mpletion time: 2020-11-01T18:12:55.6945896+03:00
```

## Результат вызова хранимой процедуры:

