Лабораторная работа №6

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.

Таким образом, вызов процедуры будет выглядеть следующим образом:

EXECUTE dbo.EmpCountByShift '[Day],[Evening],[Night]'

	DepName	Day	Evening	Night
1	Document Control	3	1	1
2	Engineering	6	0	0
3	Executive	2	0	0
4	Facilities and Maintenance	3	2	2
5	Finance	10	0	0
6	Human Resources	6	0	0
7	Information Services	9	1	0
8	Marketing	9	0	0
9	Production	79	54	46
10	Production Control	4	1	1
11	Purchasing	12	0	0

```sql
create procedure HumanResources.GetShiftEmplCounts @shifts nvarchar(max)
as
begin
    declare @sql nvarchar(max) = '
    select * from (
        select
            e.BusinessEntityID,
            d.Name as DepName,
            s.Name as ShiftName
        from HumanResources.EmployeeDepartmentHistory as edh
        inner join HumanResources.Employee as e
        on edh.BusinessEntityID = e.BusinessEntityID
        inner join HumanResources.Department as d
        on edh.DepartmentID = d.DepartmentID
        inner join HumanResources.Shift as s
        on edh.ShiftID = s.ShiftID
        where edh.EndDate is null
    ) as t
    pivot (
        count(BusinessEntityID)
        for shiftName in (' + @shifts + ')
    ) as pivotTable;';
    execute sp_executesql @sql;
end
go

EXEC HumanResources.GetShiftEmplCounts @shifts = '[Day],[Evening],[Night]';
go
```

Programmability
- Stored Procedures
  - System Stored Procedures
  - dbo.uspGetBillOfMaterials
  - dbo.uspGetEmployeeManagers
  - dbo.uspGetManagerEmployees
  - dbo.uspGetWhereUsedProductID
  - dbo.uspLogError
  - dbo.uspPrintError
  - dbo.uspSearchCandidateResumes
  - HumanResources.GetShiftEmplCounts

	DepName	Day	Eveni...	Night
1	Document Control	3	1	1
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3	Executive	2	0	0
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5	Finance	10	0	0
6	Human Resources	6	0	0
7	Information Services	9	1	0
8	Marketing	9	0	0
9	Production	79	54	46
10	Production Control	4	1	1
11	Purchasing	12	0	0
12	Quality Assurance	4	1	1
13	Research and Developm...	4	0	0
14	Sales	18	0	0
15	Shipping and Receiving	3	2	1
16	Tool Design	4	0	0