

Лабораторная работа 2.

Задание 1:

```
SELECT DISTINCT HumanResources.Employee.BusinessEntityID, HumanResources.Employee.JobTitle, HumanResources.Shift.Name, HumanResources.Shift.StartTime, HumanResources.Shift.EndTime
FROM HumanResources.Employee
INNER JOIN HumanResources.EmployeeDepartmentHistory ON HumanResources.EmployeeDepartmentHistory.BusinessEntityID = HumanResources.Employee.BusinessEntityID
INNER JOIN HumanResources.Shift ON HumanResources.Shift.ShiftID = HumanResources.EmployeeDepartmentHistory.ShiftID;
GO
```

BusinessEntityID	Job Title	Name	StartTime	EndTime
1	Chief Executive Officer	Day	07:00:00.0000000	15:00:00.0000000
2	Vice President of Engineering	Day	07:00:00.0000000	15:00:00.0000000
3	Engineering Manager	Day	07:00:00.0000000	15:00:00.0000000
4	Senior Tool Designer	Day	07:00:00.0000000	15:00:00.0000000
5	Design Engineer	Day	07:00:00.0000000	15:00:00.0000000
6	Design Engineer	Day	07:00:00.0000000	15:00:00.0000000
7	Research and Development Manager	Day	07:00:00.0000000	15:00:00.0000000
8	Research and Development Engineer	Day	07:00:00.0000000	15:00:00.0000000
9	Research and Development Engineer	Day	07:00:00.0000000	15:00:00.0000000
10	Research and Development Manager	Day	07:00:00.0000000	15:00:00.0000000
11	Senior Tool Designer	Day	07:00:00.0000000	15:00:00.0000000

Query executed successfully. DESKTOP-BQ256CB\SQLEXPRESS ... DESKTOP-BQ256CB\margo ... AdventureWorks2012 | 00:00:00 | 290 rows

```
SELECT EmpGroup.GroupName, COUNT(*) as EmpCount
FROM (
    SELECT DISTINCT HumanResources.Employee.BusinessEntityID, HumanResources.Department.GroupName
    FROM HumanResources.Department
    INNER JOIN HumanResources.EmployeeDepartmentHistory ON HumanResources.EmployeeDepartmentHistory.DepartmentID = HumanResources.Department.DepartmentID
    INNER JOIN HumanResources.Employee ON HumanResources.Employee.BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID
    WHERE HumanResources.EmployeeDepartmentHistory.EndDate IS NULL
) as EmpGroup
GROUP BY EmpGroup.GroupName
GO

WITH EmpGroup AS (
    SELECT DISTINCT HumanResources.Employee.BusinessEntityID, HumanResources.Department.GroupName
    FROM HumanResources.Department
    INNER JOIN HumanResources.EmployeeDepartmentHistory ON HumanResources.EmployeeDepartmentHistory.DepartmentID = HumanResources.Department.DepartmentID
    INNER JOIN HumanResources.Employee ON HumanResources.Employee.BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID
    WHERE HumanResources.EmployeeDepartmentHistory.EndDate IS NULL
)
SELECT EmpGroup.GroupName, COUNT(*) as EmpCount
FROM EmpGroup
GROUP BY EmpGroup.GroupName
GO
```

GroupName	EmpCount
Executive General and Administration	35
Inventory Management	18
Manufacturing	185
Quality Assurance	11
Research and Development	14
Sales and Marketing	27

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WITH
EmpInfo AS (
SELECT DISTINCT HumanResources.Department.Name as departmentName, HumanResources.Employee.BusinessEntityID, HumanResources.EmployeePayHistory.Rate
FROM HumanResources.Employee
INNER JOIN HumanResources.EmployeeDepartmentHistory ON HumanResources.EmployeeDepartmentHistory.BusinessEntityID = HumanResources.Employee.BusinessEntityID
INNER JOIN HumanResources.Department ON HumanResources.Department.DepartmentID = HumanResources.EmployeeDepartmentHistory.DepartmentID
INNER JOIN HumanResources.EmployeePayHistory ON HumanResources.EmployeePayHistory.BusinessEntityID = HumanResources.Employee.BusinessEntityID
)
RateGroups AS (
SELECT EmpInfo.departmentName, MAX(EmpInfo.Rate) as maxRate
FROM EmpInfo
GROUP BY EmpInfo.departmentName
)
SELECT EmpInfo.departmentName, EmpInfo.BusinessEntityID, EmpInfo.Rate, maxRate
FROM EmpInfo
INNER JOIN RateGroups ON RateGroups.departmentName = EmpInfo.departmentName
ORDER BY RateGroups.departmentName

70 %

Results Messages

	departmentName	BusinessEntit...	Rate	maxRate
1	Document Control	217	17,7885	17,7885
2	Document Control	218	16,8269	17,7885
3	Document Control	219	10,25	17,7885
4	Document Control	220	10,25	17,7885
5	Document Control	221	16,8269	17,7885
6	Engineering	2	63,4615	63,4615
7	Engineering	3	43,2692	63,4615
8	Engineering	4	8,62	63,4615
9	Engineering	4	23,72	63,4615
10	Engineering	4	29,8462	63,4615
11	Engineering	5	32,6923	63,4615
12	Engineering	6	32,6923	63,4615
13	Enaineerina	14	36.0577	63.4615

Query executed successfully.
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