

Задание1:

1.

```
USE AdventureWorks2012;
GO

-- Вывести на экран список сотрудников с указанием максимальной ставки, по которой им выплачивали денежные средства.
SELECT
    Employee.BusinessEntityID, Employee.JobTitle, EmployeePay.BiggestRate as MaxRate
FROM
    HumanResources.Employee as Employee inner join
    (SELECT HumanResources.EmployeePayHistory.BusinessEntityID, MAX(HumanResources.EmployeePayHistory.Rate) AS BiggestRate
    FROM HumanResources.EmployeePayHistory
    GROUP BY HumanResources.EmployeePayHistory.BusinessEntityID) as EmployeePay
ON
    EmployeePay.BusinessEntityID = Employee.BusinessEntityID
-- Разбить все почасовые ставки на группы таким образом, чтобы одинаковые ставки входили в одну группу. Номера групп должны быть распределены по возрастанию ставок. Назвать группы RankRate
SELECT
    TempTable.BusinessEntityID, TempTable.JobTitle, TempTable.Rate, DENSE_RANK() OVER(ORDER BY TempTable.Rate ASC) AS RankRate
FROM
    (SELECT
        Employee.BusinessEntityID, Employee.JobTitle, EmployeePay.Rate
```

100 %

Результаты Сообщения

	BusinessEntityID	JobTitle	MaxRate
1	1	Chief Executive Officer	125.50
2	2	Vice President of Engineering	63.4615
3	3	Engineering Manager	43.2692
4	4	Senior Tool Designer	29.8462
5	5	Design Engineer	32.6923
6	6	Design Engineer	32.6923
7	7	Research and Development Manager	50.4808
8	8	Research and Development Engineer	40.8654

2.

```
-- Разбить все почасовые ставки на группы таким образом, чтобы одинаковые ставки входили в одну группу. Номера групп должны быть распределены по возрастанию ставок. Назвать группы RankRate
SELECT
    TempTable.BusinessEntityID, TempTable.JobTitle, TempTable.Rate, DENSE_RANK() OVER(ORDER BY TempTable.Rate ASC) AS RankRate
FROM
    (SELECT
        Employee.BusinessEntityID, Employee.JobTitle, EmployeePay.Rate
    FROM
        HumanResources.Employee as Employee inner join HumanResources.EmployeePayHistory as EmployeePay
    ON
        EmployeePay.BusinessEntityID = Employee.BusinessEntityID
    GROUP BY Employee.BusinessEntityID, Employee.JobTitle, EmployeePay.Rate
    ) as TempTable
-- Вывести на экран информацию об отделах и работающих в них сотрудниках, отсортированную по полю ShiftID в отделе 'Document Control' и по полю BusinessEntityID во всех остальных отделах
SELECT
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Результаты Сообщения

	BusinessEntityID	JobTitle	Rate	RankRate
167	167	Production Technician - WC30	6.50	1
170	170	Production Technician - WC30	6.50	1
172	172	Production Technician - WC30	6.50	1
175	175	Production Technician - WC30	6.50	1
176	176	Production Technician - WC30	6.50	1
177	177	Production Technician - WC30	6.50	1
178	178	Production Technician - WC30	6.50	1
174	174	Production Technician - WC30	6.75	2

3.

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--Вывести на экран информацию об отделах и работающих в них сотрудниках, отсортированную по полю ShiftID в отделе 'Document Control' и по полю BusinessEntityID во всех
SELECT
    TempTable2.Name as DepName, TempTable.BusinessEntityID, TempTable.JobTitle, TempTable.ShiftID
FROM
    (SELECT
        Employee.BusinessEntityID, Employee.JobTitle, EmployeeDepHis.ShiftID, EmployeeDepHis.DepartmentID
    FROM
        HumanResources.Employee as Employee inner join HumanResources.EmployeeDepartmentHistory as EmployeeDepHis
    ON
        EmployeeDepHis.BusinessEntityID = Employee.BusinessEntityID) as TempTable inner join HumanResources.Department as TempTable2
    ON TempTable.DepartmentID = TempTable2.DepartmentID
ORDER BY
    CASE WHEN TempTable2.Name != 'Document Control' THEN TempTable.DepartmentID END ASC,
    CASE WHEN TempTable2.Name = 'Document Control' THEN TempTable.ShiftID END ASC

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Результаты

4	175	Production Technician - WC30	6,50	1
5	176	Production Technician - WC30	6,50	1
6	177	Production Technician - WC30	6,50	1
7	178	Production Technician - WC30	6,50	1
8	174	Production Technician - WC30	6,75	2
9	178	Production Technician - WC30	7,00	3
10	167	Production Technician - WC30	7,25	4
11	170	Production Technician - WC30	7,25	4

	DepName	BusinessEntityID	JobTitle	ShiftID
1	Document Control	217	Document Control Manager	1
2	Document Control	219	Document Control Assistant	1
3	Document Control	220	Document Control Assistant	1
4	Document Control	221	Control Specialist	2
5	Document Control	218	Control Specialist	3
6	Engineering	14	Senior Design Engineer	1
7	Engineering	15	Design Engineer	1
8	Engineering	2	Vice President of Engineer...	1