## Министерство образования Республики Беларусь

### Учреждение образования БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра программного обеспечения информационных технологий

# ОТЧЕТ по лабораторной работе №2 Вариант 1

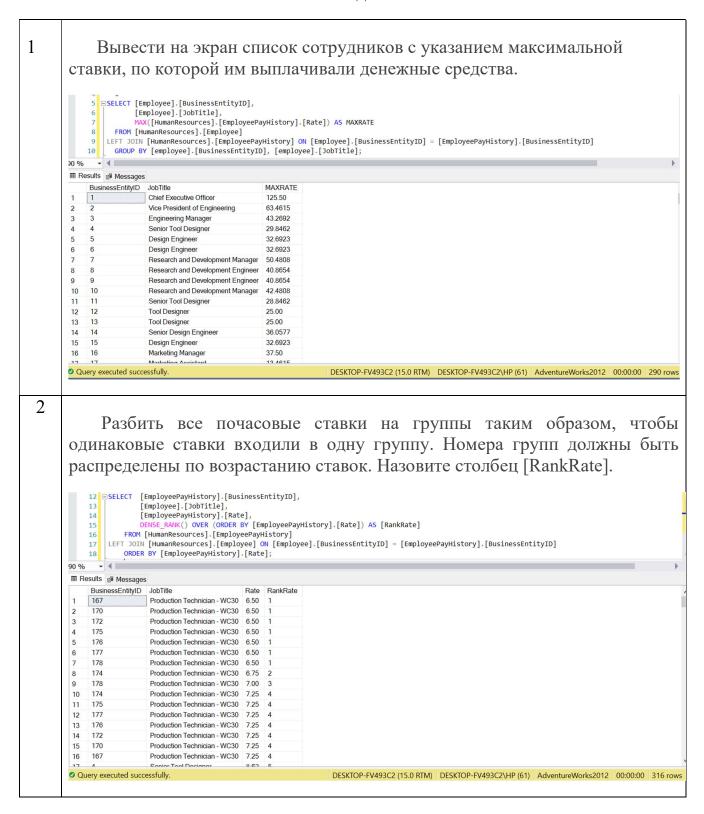
Выполнила

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Проверил О.А. Салей

### Выполнение лабораторной работы

#### Задание 1



3 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. [Department].[Name] as [DepName],
[Employee].[BusinessEntityID],
[Employee].[JobTitle], [EmployeeDepartmentHistory].[ShiftID] FROM [HumanResources].[Department]

LEFT JOIN [HumanResources].[EmployeeDepartmentHistory] ON [EmployeeDepartmentHistory].[DepartmentID] = [Department].[DepartmentID]

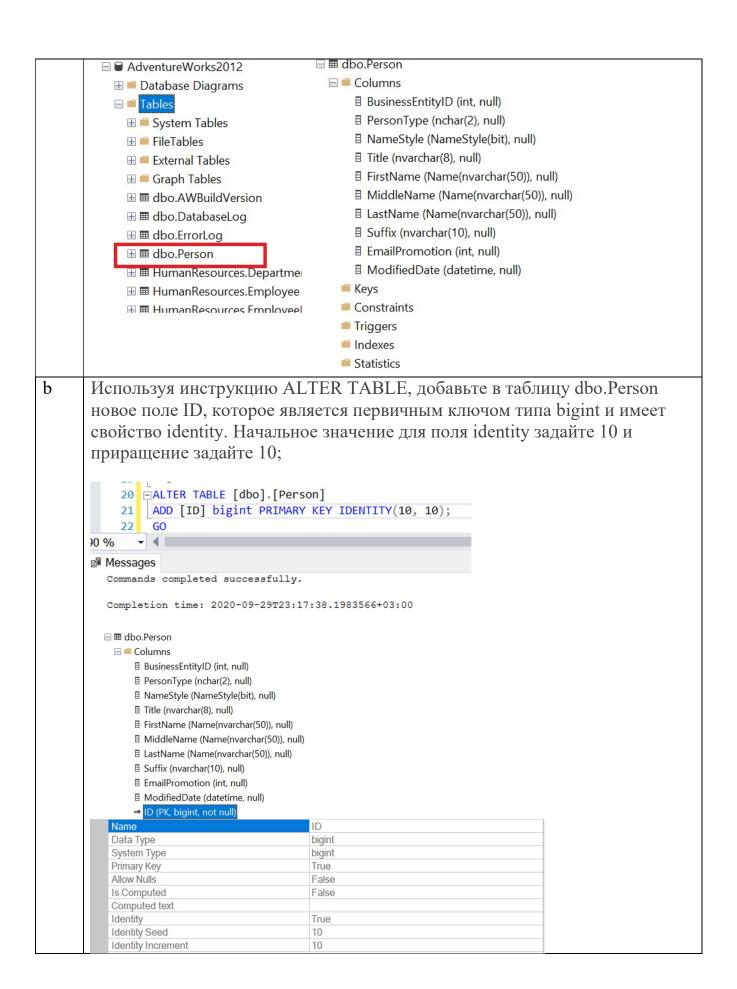
LEFT JOIN [HumanResources].[Employee] ON [Employee].[BusinessEntityID] = [EmployeeDepartmentHistory].[BusinessEntityID]

WHERE [EmployeeDepartmentHistory].[EndDate] IS NULL ORDER BY [Department].[Name] = 'Document Control' THEN [EmployeeDepartmentHistory].[ShiftID] ELSE [Employee].[BusinessEntityID] END; ■ Results Messages BusinessEntityID JobTitle DepName Document Control Document Control Assistant 219 Document Control 220 Document Control Assistant Document Control 217 Document Control Manager Control Specialist **Document Control** 221 Document Control 218 Control Specialist Engineering 2 Vice President of Engineering Engineering **Engineering Manager** Engineering Design Engineer Design Engineer Engineering Senior Design Engineer 15 Design Engineer 11 Engineering Chief Executive Officer Executive Chief Financial Officer 14 Facilities and Maintenance 227 Facilities Manager 15 Facilities and Maintenance 228 Maintenance Supervisor Facilities and Maintenance 229 DESKTOP-FV493C2 (15.0 RTM) DESKTOP-FV493C2\HP (61) AdventureWorks2012 00:00:00 290 rows

Задание 2

Query executed successfully

Создайте таблицу dbo. Person с такой же структурой как Person. Person, a кроме полей xml, uniqueidentifier, не включая индексы, ограничения и триггеры; 5 □CREATE TABLE [dbo].[Person] ( [BusinessEntityID] INT, 7 [PersonType] nchar(2), 8 [NameStyle] NameStyle NULL, 9 [Title] nvarchar(8), 10 [FirstName] Name, 11 [MiddleName] Name, 12 [LastName] Name, [Suffix] nvarchar(10), 13 14 [EmailPromotion] INT, [ModifiedDate] datetime 15 ); 16 17 GO 10 % Messages Commands completed successfully. Completion time: 2020-09-29T23:13:39.2271275+03:00



```
Используя инструкцию ALTER TABLE, создайте для таблицы dbo.Person
c
       ограничение для поля Title, чтобы заполнить его можно было только
       значениями 'Mr.' или 'Ms.';
            25 ALTER TABLE [dbo]. [Person]
                ADD CONSTRAINT [CHK_Title] CHECK ([Title] IN ('Mr.', 'Ms.'));
            27
                  GO
             28
       90 %
        Messages
          Commands completed successfully.
          Completion time: 2020-09-29T23:20:01.8132400+03:00
        ■ ■ dbo.Person

	☐ ■ Columns

               ■ BusinessEntityID (int, null)

    □ PersonType (nchar(2), null)

               ■ NameStyle (NameStyle(bit), null)
               目 Title (nvarchar(8), null)
               ☐ FirstName (Name(nvarchar(50)), null)

        ■ MiddleName (Name(nvarchar(50)), null)

               ■ LastName (Name(nvarchar(50)), null)

■ Suffix (nvarchar(10), null)

               ■ EmailPromotion (int, null)
               ■ ModifiedDate (datetime, null)
               → ID (PK, bigint, not null)
          ⊞ ≡ Keys
          CHK Title
            Triggers
          ⊞ Indexes
          ⊞ ■ Statistics
        (General)
          Expression
                                ([Title]='Ms.' OR [Title]='Mr.')
        Identity
          (Name)
                                CHK Title
          Description

    Table Designer

          Check Existing Data On Cr Yes
          Enforce For INSERTs And I Yes
          Enforce For Replication Yes
```

Используя инструкцию ALTER TABLE, создайте для таблицы dbo.Person d ограничение DEFAULT для поля Suffix, задайте значение по умолчанию 'N/A'; 30 ALTER TABLE [dbo].[Person] ADD CONSTRAINT [DF\_Suffix] DEFAULT 'N/A' FOR [Suffix]; 0 % Messages Commands completed successfully. Completion time: 2020-09-29T23:23:19.6797745+03:00 ✓ (General) (Name) Suffix Allow Nulls Yes nvarchar Data Type Default Value or Binding ('N/A') Length 10 ■ ■ dbo.Person ⊞ ■ Columns ⊞ **■** Keys [B] CHK Title ☐ DF\_Suffix
☐ **⊞** ■ Statistics Заполните новую таблицу данными из Person. Person только для тех e сотрудников, которые существуют в таблице HumanResources. Employee, исключив сотрудников из отдела 'Executive';

```
ERT INTO [dbo].[Pers [BusinessEntityID],
                                            [PersonType].
                                             [NameStyle],
                                             [Title]
                                            [LastName],
[Suffix],
                                            [EmailPromotion]
                                            [ModifiedDate]
                                           [PEECT
[person].[BusinessEntityID],
[person].[PersonType],
[person].[NameStyle],
[person].[Title],
[person].[FirstName],
                                           [person].[FirstName],
[person].[MiddleName],
[person].[LastName],
[person].[Suffix],
[person].[EmailPromotion],
[person].[ModifiedDate]
                                     FROM [Person]. [Person]
                                     INNER JOIN [HumanResources].[Employee] ON [HumanResources].[Employee].[BusinessEntityID] = [Person].[Person].[BusinessEntityID] = [HumanResources].[Employee].[BusinessEntityID] = [HumanResources].[EmployeeDepartmentHistory] ON [HumanResources].[EmployeeDepartmentHistory].[BusinessEntityID] = [HumanResources].[BusinessEntityID] = [HumanResources].[Busin
                                           [HumanResources].[EmployeeDepartmentHistory].[EndDate] IS NULL AND [HumanResources].[Department].[Name] <> 'Executive';
                        ) %
                        Messages
f
                         Измените размерность поля Suffix, уменьшите размер поля до 5-ти
                         символов.
                                                66 ☐ALTER TABLE [dbo].[Person]
                                                                   ALTER COLUMN [Suffix] nvarchar(5);
                                                68
                                                                   GO
                           90 %
                             Messages
                                       Commands completed successfully.
                                       Completion time: 2020-09-29T23:27:28.5067379+03:00
                                  ■ ■ dbo.Person
                                           ■ BusinessEntityID (int, null)

☐ PersonType (nchar(2), null)

                                                               ■ NameStyle (NameStyle(bit), null)
                                                              ☐ Title (nvarchar(8), null)
                                                               FirstName (Name(nvarchar(50)), null)

☐ MiddleName (Name(nvarchar(50)), null)

                                                               ■ LastName (Name(nvarchar(50)), null)
                                                               ■ Suffix (nvarchar(5), null)
                                                               ■ EmailPromotion (int, null)
                                                               ■ ModifiedDate (datetime, null)
                                                              ■ ID (PK, bigint, not null)
```