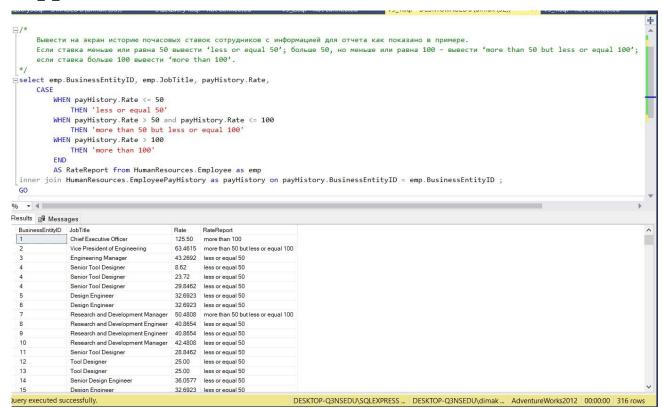
LAB2:

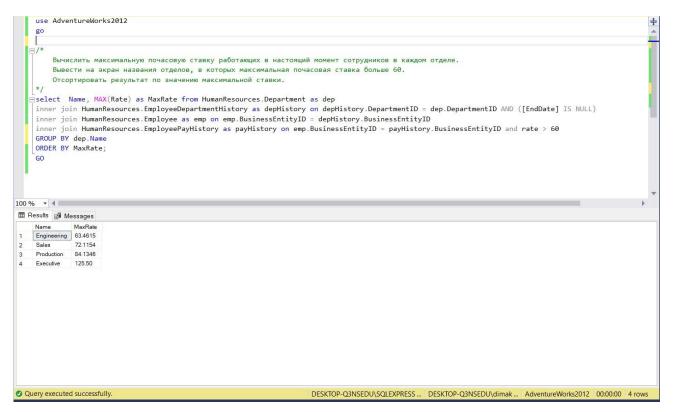
TASK 1 1:

```
Вывести на экран среднее значение почасовой ставки для каждого сотрудника
    join\ \ HumanResources. Employee Pay History\ \ as\ pay History\ \ on\ pay History. Business Entity ID\ =\ emp.\ Business Entity ID\ \ 
    GROUP BY emp.[BusinessEntityID], emp.[JobTitle];
100 % 🔻 4
Results Messages
                                              AvarageRate
    BusinessEntityID JobTitle
                  Chief Executive Officer
                                              125.50
                  Vice President of Engineering
                                              63.4615
                  Engineering Manager
                                              43.2692
                  Senior Tool Designer
                                              20.7287
                  Design Engineer
                                              32 6923
                  Design Engineer
                                              32.6923
                  Research and Development Manager
                  Research and Development Engineer 40.8654
                  Research and Development Engineer
                                              40.8654
                  Research and Development Manager
                                              42.4808
11
12
     11
                  Senior Tool Designer
                                              28.8462
                  Tool Designer
                                              25.00
                  Tool Designer
                                              25.00
 14
     14
                  Senior Design Engineer
                                              36.0577
                  Design Engineer
                                              32.6923
     16
                  Marketing Manager
                                              30 0833
     17
                  Marketing Assistant
                                              13,4615
Query executed successfully.
                                                                             DESKTOP-Q3NSEDU\SQLEXPRESS ... | DESKTOP-Q3NSEDU\dimak ... | AdventureWorks2012 | 00:00:00 | 290 rows
```

TASK 1 2:



TASK 1 3:



Task_2_a:

```
□ ml dbo.StateProvince
□ Columns
□ StateProvinceCode (inchar(3), not null)
□ StateProvinceCode (inchar(3), not null)
□ IsoniyStateProvinceGode (inchar(3), not null)
□ IsoniyStateProvinceGode (inchar(3), not null)
□ IsoniyStateProvinceGode (inchar(3)), not null)
□ TerrinotylD (int, not null)
□ ModifiedDate (datetime, not null)
□ ModifiedDate (datetime, not null)
□ StateProvinceGode (inchar(3)), not null)
□ ModifiedDate (datetime, not null)
□ StateProvinceGode (inchar(3)), not null)
□ ModifiedDate (datetime, null)
□ Modified
```

Task_2_b:

```
⊞ fileTables

⊞ dbo.AWBuildVersion

⊞ mdbo.DatabaseLog

⊞ mdbo.DatabaseLog

⊞ mdbo.DatabaseLog

⊞ mdbo.DatabaseLog

⊞ mdbo.DatabaseLog

⊞ mdbo.StateProvince

E © Columns

□ mdbo.StateProvince

E © Columns

□ M. Keys

→ PK_StateProvince

⊕ Constraints

□ /*
```

Task_2_c-d:

```
используя инструкцию ALTER TABLE, создайте для таблицы dbo.StateProvince ограничение для поля TerritoryID, чтобы значение поля могло содержать только четные цифры; */
CREATE FUNCTION dbo.EvenDigits (@digit int)
  □ CHK_TerritoryID

☐ TerritoryID_DEFAULT
                                                       BEGIN
                                                         DECLARE @result int
WHILE @digit <> 0
  BEGIN
                                                                SET @result = @digit % 10;
IF @result % 2 <> 0
RETURN 0;

    ⊞ HumanResources.Department

SET @digit = (@digit - @result) / 10;
                                                            END;
RETURN 1

    ⊞ HumanResources.Shift

■ III HumanResources.Shift
■ III Person.Address
■ III Person.BusinessEntity
■ III Person.BusinessEntityAddress
■ III Person.BusinessEntityContact
                                                        END:
                                                       ALTER TABLE dbo.StateProvince ADD CONSTRAINT CHK TerritorvID
                                                       CHECK (dbo.EvenDigits([TerritoryID]) = 1)

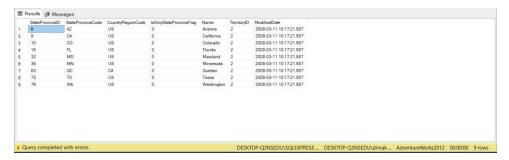
    ⊞ Person.ContactType

используя инструкцию ALTER TABLE, создайте для таблицы dbo.StateProvince ограничение DEFAULT для поля TerritoryID, задайте значение п
                                                       ALTER TABLE dbo.StateProvince ADD CONSTRAINT TerritoryID_DEFAULT
                                                       DEFAULT 2 FOR TerritoryID;

    ⊞ Person.PhoneNumberType
```

Task_2_e:

```
INSERT INTO dbo.StateProvince(
             StateProvinceID,
StateProvinceCode,
             CountryRegionCode
             IsOnlyStateProvinceFlag.
            ModifiedDate
 SELECT
                StateProvinceID,
                StateProvinceCode,
                CountryRegionCode,
IsOnlyStateProvinceFlag,
                ModifiedDate
 FROM
 (SELECT
                stateProvince.StateProvinceID
                stateProvince.StateProvinceCode,
stateProvince.CountryRegionCode,
stateProvince.IsOnlyStateProvinceFlag,
                stateProvince.Name,
stateProvince.Name, |
stateProvince.ModifiedDate,
address.AddressID AS AddressID,
MAX(address.AddressID) OVER (PARTITION BY stateProvince.StateProvince.StateProvince.StateProvinceCode) as MaxAddressID
FROM Person.StateProvince AS stateProvince
INNER JOIN Person.Address AS address
ON stateProvince.StateProvinceID = address.StateProvinceID
 INNER JOIN Person.BusinessEntityAddress AS bussines
ON address.AddressID = bussines.AddressID
INNER JOIN Person.AddressType AS addresType
 ON addresType.AddressTypeID = bussines.AddressTypeID
WHERE addresType.Name = 'Shipping') as province
WHERE province.MaxAddressID = province.AddressID;
```



Task_2_f:

```
■ dbo.StateProvince

□ Columns

□ StateProvinceID (PK, int, not null)

□ StateProvinceCode (PK, nchar(3), not null)

□ CountryRegionCode (mvarchar(3), not null)

□ IsOnlyStateProvinceFlag (smallint, null)

□ Name (Name(mvarchar(50)), not null)

□ TerritoryID (int, not null)

□ ModifiedDate (datetime, not null)

□ ModifiedDate (datetime, not null)
```