Министерство образования Республики Беларусь

Учреждение образования

БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра программного обеспечения информационных технологий

Дисциплина: Базы Данных (БД)

ОТЧЕТ

по лабораторной работе №3

Выполнил

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Проверил: Салей

Минск 2018

**Задачи**:

**№1**

**Подзадача 1.**

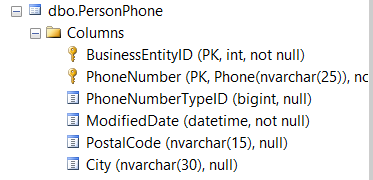
Запрос:

ALTER TABLE Sergey\_Shepelevich.dbo.PersonPhone

ADD City NVARCHAR(30);

GO

Результат :



**Подзадача 2.**

Запрос:

DECLARE @PersonPhoneVariable TABLE

(

BusinessEntityID INT NOT NULL,

PhoneNumber Phone NOT NULL,

PhoneNumberTypeID BIGINT NULL,

ModifiedDate DATETIME,

PostalCode NVARCHAR(15) DEFAULT ('0'),

City NVARCHAR(30)

);

INSERT INTO

@PersonPhoneVariable

(

BusinessEntityID,

PhoneNumber,

PhoneNumberTypeID,

ModifiedDate,

PostalCode,

City

)

SELECT

Sergey\_Shepelevich.dbo.PersonPhone.BusinessEntityID,

Sergey\_Shepelevich.dbo.PersonPhone.PhoneNumber,

Sergey\_Shepelevich.dbo.PersonPhone.PhoneNumberTypeID,

Sergey\_Shepelevich.dbo.PersonPhone.ModifiedDate,

IIF (Person.Address.PostalCode LIKE '[a-zA-Z]', '0', Person.Address.PostalCode ),

Person.Address.City

FROM

Sergey\_Shepelevich.dbo.PersonPhone

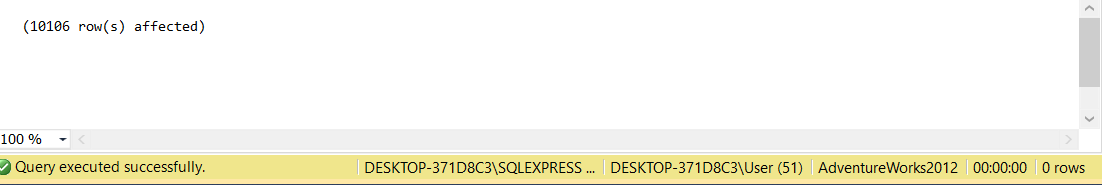
LEFT JOIN Person.BusinessEntityAddress

ON (Sergey\_Shepelevich.dbo.PersonPhone.BusinessEntityID = Person.BusinessEntityAddress.BusinessEntityID)

LEFT JOIN Person.Address

ON (Person.BusinessEntityAddress.AddressID = Person.Address.AddressID);

Результат :



**Подзадача 3.**

Запрос:

UPDATE

Sergey\_Shepelevich.dbo.PersonPhone

SET

Sergey\_Shepelevich.dbo.PersonPhone.PostalCode = PersonPhoneVariable.PostalCode,

Sergey\_Shepelevich.dbo.PersonPhone.City = PersonPhoneVariable.City,

Sergey\_Shepelevich.dbo.PersonPhone.PhoneNumber=

CASE CHARINDEX('1 (11)', PersonPhoneVariable.PhoneNumber)

WHEN 0 THEN '1 (11) ' + PersonPhoneVariable.PhoneNumber

ELSE PersonPhoneVariable.PhoneNumber

END

FROM

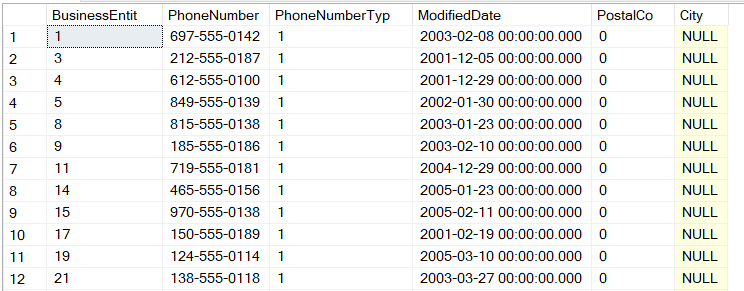
Sergey\_Shepelevich.dbo.PersonPhone

JOIN @PersonPhoneVariable AS PersonPhoneVariable

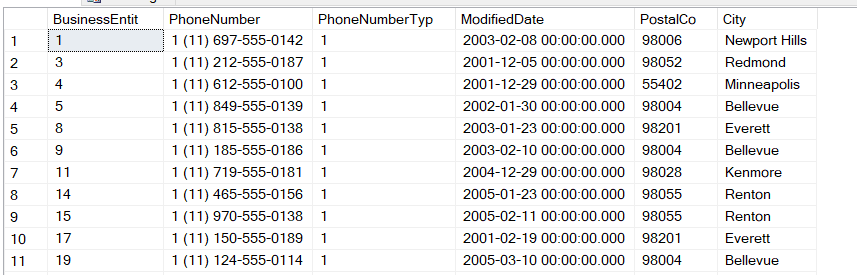
ON (Sergey\_Shepelevich.dbo.PersonPhone.BusinessEntityID = PersonPhoneVariable.BusinessEntityID);

GO

Результат :

ДО: 

ПОСЛЕ:



**Подзадача 4.**

Запрос:

DELETE

phoneTable

FROM

Sergey\_Shepelevich.dbo.PersonPhone AS phoneTable

JOIN Person.Person

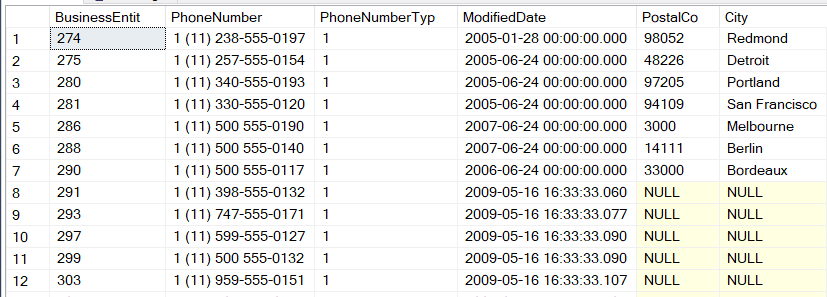
ON (phoneTable.BusinessEntityID = Person.Person.BusinessEntityID)

WHERE

PersonType = 'EM';

GO

Результат :



**Подзадача 5.**

Запрос:

ALTER TABLE Sergey\_Shepelevich.dbo.PersonPhone

DROP COLUMN City;

ALTER TABLE Sergey\_Shepelevich.dbo.PersonPhone

DROP CONSTRAINT

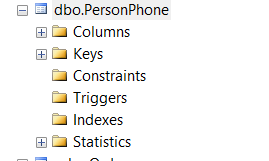
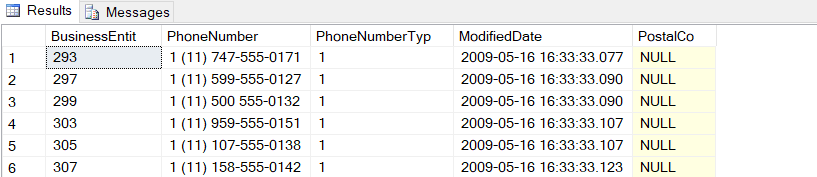
PK\_PersonPhone,

DF\_PostalCode,

CK\_Postal\_code;

GO

Результат :

**Подзадача 6.**

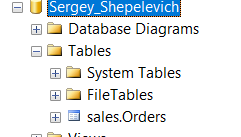
Запрос:

DROP TABLE

Sergey\_Shepelevich.dbo.PersonPhone;

GO

Результат :



**№2**

**1)**

ALTER TABLE dbo.PersonPhone

ADD

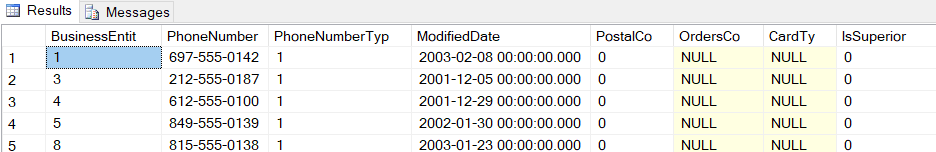
OrdersCount INT,

CardType NVARCHAR(50),

IsSuperior AS IIF (CardType = 'SuperiorCard', 1, 0);

GO

Результат :



**2)**

-- 2

CREATE TABLE #PersonPhone

(

BusinessEntityID INT NOT NULL PRIMARY KEY,

PhoneNumber NVARCHAR(25) NOT NULL,

PhoneNumberTypeID BIGINT NULL,

ModifiedDate DATETIME,

PostalCode NVARCHAR(15) DEFAULT ('0'),

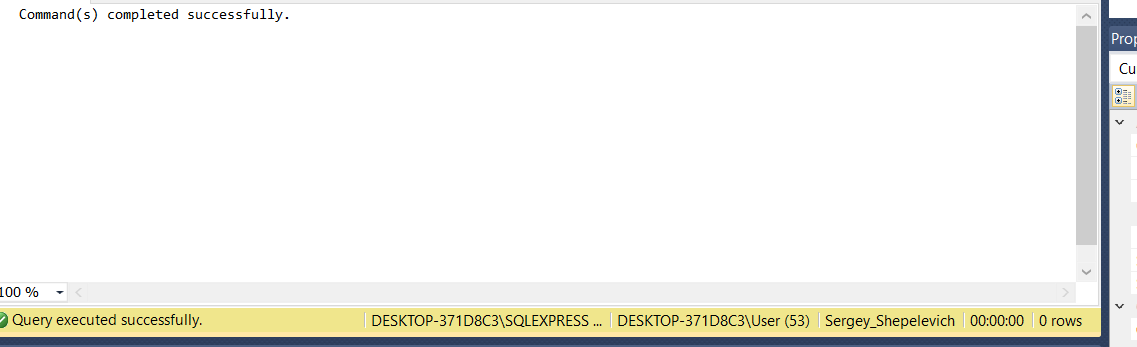
OrdersCount INT,

CardType NVARCHAR(50)

);

GO

Результат :



**3)**

--3

WITH Orders\_CTE (CreditCardID, OrdersCount)

AS

(

SELECT

CreditCardID,

COUNT(\*) AS OrdersCount

FROM

AdventureWorks2012.Sales.SalesOrderHeader

GROUP BY

CreditCardID

)

INSERT INTO #PersonPhone

(

BusinessEntityID,

PhoneNumber,

PhoneNumberTypeID,

ModifiedDate,

PostalCode,

OrdersCount,

CardType

)

SELECT

dbo.PersonPhone.BusinessEntityID,

dbo.PersonPhone.PhoneNumber,

dbo.PersonPhone.PhoneNumberTypeID,

dbo.PersonPhone.ModifiedDate,

dbo.PersonPhone.PostalCode,

Orders\_CTE.OrdersCount,

AdventureWorks2012.Sales.CreditCard.CardType

FROM dbo.PersonPhone

JOIN AdventureWorks2012.Sales.PersonCreditCard

ON (dbo.PersonPhone.BusinessEntityID = AdventureWorks2012.Sales.PersonCreditCard.BusinessEntityID)

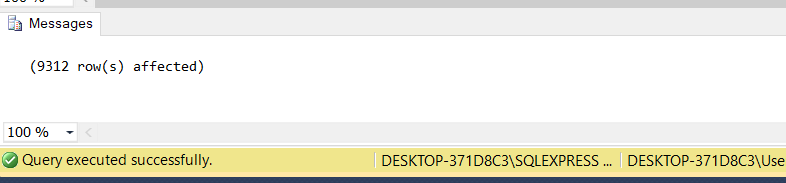
JOIN AdventureWorks2012.Sales.CreditCard

ON (AdventureWorks2012.Sales.PersonCreditCard.CreditCardID = CreditCard.CreditCardID)

JOIN Orders\_CTE

ON (CreditCard.CreditCardID = Orders\_CTE.CreditCardID);

Результат :



**4)**

DELETE

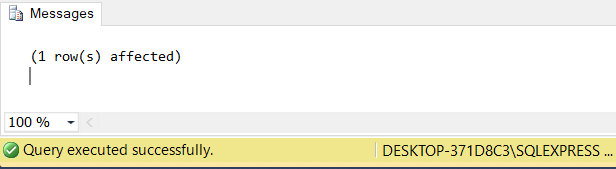
FROM

dbo.PersonPhone

WHERE

BusinessEntityID = 297;

Результат :



**5)**

-- 5

MERGE dbo.PersonPhone AS TARGET

USING #PersonPhone AS source

ON (TARGET.BusinessEntityID = source.BusinessEntityID)

WHEN MATCHED THEN

UPDATE

SET OrdersCount = source.OrdersCount, CardType = source.CardType

WHEN NOT MATCHED BY TARGET THEN

INSERT

(

BusinessEntityID,

PhoneNumber,

PhoneNumberTypeID,

ModifiedDate,

OrdersCount,

CardType

)

VALUES

(

BusinessEntityID,

PhoneNumber,

PhoneNumberTypeID,

ModifiedDate,

OrdersCount,

CardType

)

WHEN NOT MATCHED BY SOURCE THEN

DELETE;

GO

Результат :

