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|  | МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РЕСПУБЛИКИ ТАТАРСТАН **Государственное автономное профессиональное образовательное учреждение** **«ЗЕЛЕНОДОЛЬСКИЙ МЕХАНИЧЕСКИЙ КОЛЛЕДЖ»** (ГАПОУ «ЗМК») |

**09.02.07 «Информационные системы и программирование»**

# **МДК 07.01. УПРАВЛЕНИЕ И АВТОМАТИЗАЦИЯ БАЗ ДАННЫХ**

**Отчет о практических работах**

**Исполнитель**: Халилуллин Камиль Ильдарович

**Группа**: 215

**Преподаватель:** Алемасов Евгений Павлович

**Дата сдачи** 06.11.2023 **Оценка** \_\_\_\_\_\_\_\_\_\_\_\_

**Подпись преподавателя**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ЗЕЛЕНОДОЛЬСК – 2023**

**Работа No3 Таблицы и связи между ними.**

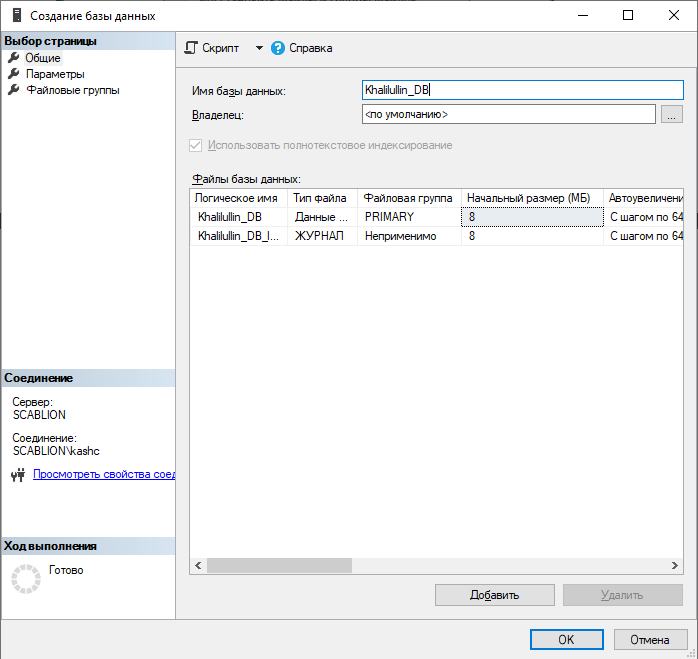
**Цель:**

**создание таблиц и создание каскадных связей между ними**

**Задание:**

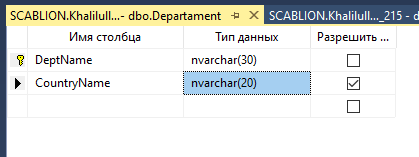
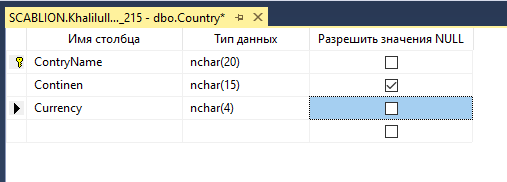
№1

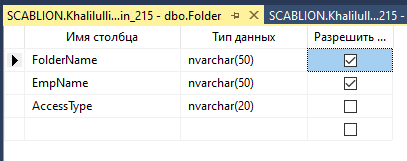
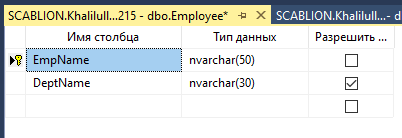
Создание бд



№2

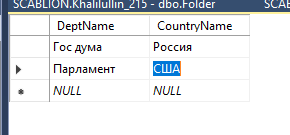
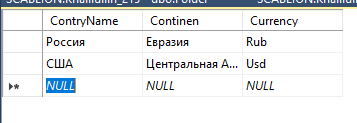
Создание и заполнение таблицы

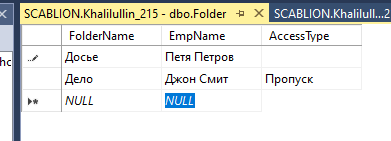
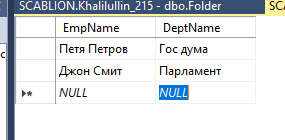




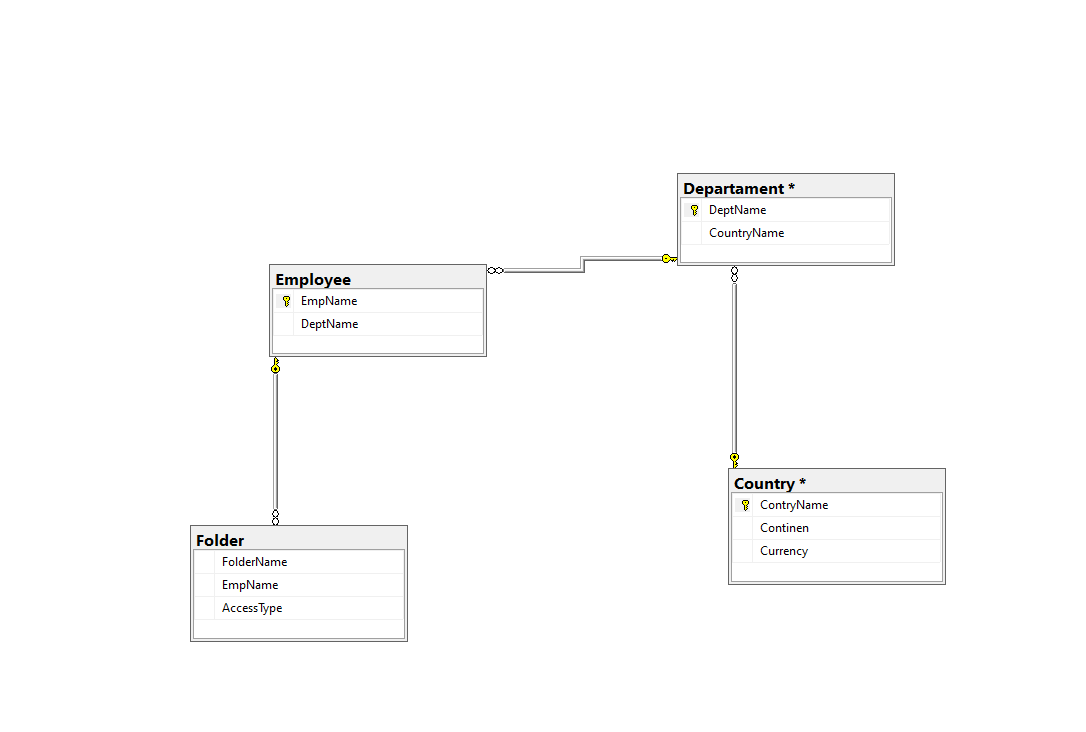
№3

Внесеие данных в таблицы



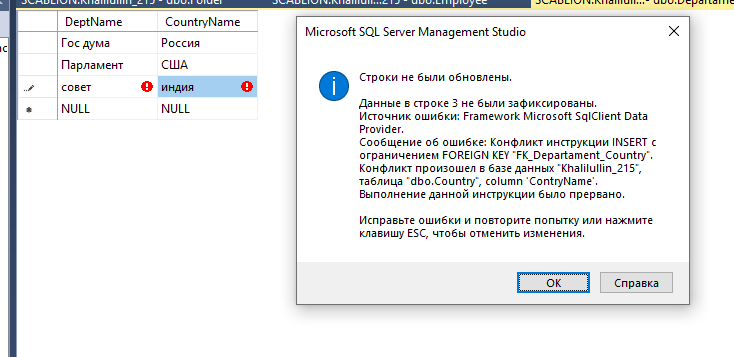


№4

Создание диаграммы бд и связей таблиц по ключу

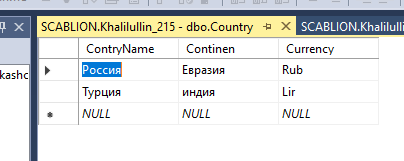
№5

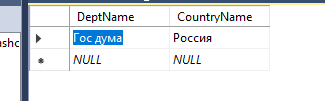
Проверка связи с первичным ключом при добавлении записи

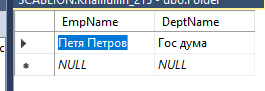


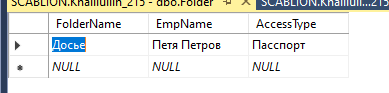
№6

Проверка каскадного удаления









**Скрипт:**

USE [master]

GO

/\*\*\*\*\*\* Object: Database [Khalilullin\_215] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

CREATE DATABASE [Khalilullin\_215]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'Khalilullin\_215', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\Khalilullin\_215.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

LOG ON

( NAME = N'Khalilullin\_215\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\Khalilullin\_215\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

WITH CATALOG\_COLLATION = DATABASE\_DEFAULT

GO

ALTER DATABASE [Khalilullin\_215] SET COMPATIBILITY\_LEVEL = 150

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [Khalilullin\_215].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [Khalilullin\_215] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [Khalilullin\_215] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [Khalilullin\_215] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [Khalilullin\_215] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [Khalilullin\_215] SET ARITHABORT OFF

GO

ALTER DATABASE [Khalilullin\_215] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [Khalilullin\_215] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [Khalilullin\_215] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [Khalilullin\_215] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [Khalilullin\_215] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [Khalilullin\_215] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [Khalilullin\_215] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [Khalilullin\_215] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [Khalilullin\_215] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [Khalilullin\_215] SET DISABLE\_BROKER

GO

ALTER DATABASE [Khalilullin\_215] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [Khalilullin\_215] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [Khalilullin\_215] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [Khalilullin\_215] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [Khalilullin\_215] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [Khalilullin\_215] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [Khalilullin\_215] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [Khalilullin\_215] SET RECOVERY FULL

GO

ALTER DATABASE [Khalilullin\_215] SET MULTI\_USER

GO

ALTER DATABASE [Khalilullin\_215] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [Khalilullin\_215] SET DB\_CHAINING OFF

GO

ALTER DATABASE [Khalilullin\_215] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [Khalilullin\_215] SET TARGET\_RECOVERY\_TIME = 60 SECONDS

GO

ALTER DATABASE [Khalilullin\_215] SET DELAYED\_DURABILITY = DISABLED

GO

ALTER DATABASE [Khalilullin\_215] SET ACCELERATED\_DATABASE\_RECOVERY = OFF

GO

EXEC sys.sp\_db\_vardecimal\_storage\_format N'Khalilullin\_215', N'ON'

GO

ALTER DATABASE [Khalilullin\_215] SET QUERY\_STORE = OFF

GO

USE [Khalilullin\_215]

GO

/\*\*\*\*\*\* Object: User [User\_215\_23] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

CREATE USER [User\_215\_23] FOR LOGIN [User\_215\_23] WITH DEFAULT\_SCHEMA=[dbo]

GO

/\*\*\*\*\*\* Object: User [Admin\_215\_23] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

CREATE USER [Admin\_215\_23] WITHOUT LOGIN WITH DEFAULT\_SCHEMA=[dbo]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Country] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Country](

[ContryName] [nvarchar](50) NOT NULL,

[Continen] [nvarchar](50) NOT NULL,

[Currency] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_Country] PRIMARY KEY CLUSTERED

(

[ContryName] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Departament] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Departament](

[DeptName] [nvarchar](30) NOT NULL,

[CountryName] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_Departament] PRIMARY KEY CLUSTERED

(

[DeptName] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Employee] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Employee](

[EmpName] [nvarchar](50) NOT NULL,

[DeptName] [nvarchar](30) NOT NULL,

CONSTRAINT [PK\_Employee] PRIMARY KEY CLUSTERED

(

[EmpName] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Folder] Script Date: 19.11.2023 13:04:41 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Folder](

[FolderName] [nvarchar](50) NOT NULL,

[EmpName] [nvarchar](50) NOT NULL,

[AccessType] [nvarchar](20) NOT NULL

) ON [PRIMARY]

GO

INSERT [dbo].[Country] ([ContryName], [Continen], [Currency]) VALUES (N'Россия', N'Евразия', N'Rub')

INSERT [dbo].[Country] ([ContryName], [Continen], [Currency]) VALUES (N'Турция', N'индия', N'Lir')

GO

INSERT [dbo].[Departament] ([DeptName], [CountryName]) VALUES (N'Гос дума', N'Россия')

GO

INSERT [dbo].[Employee] ([EmpName], [DeptName]) VALUES (N'Петя Петров', N'Гос дума')

GO

INSERT [dbo].[Folder] ([FolderName], [EmpName], [AccessType]) VALUES (N'Досье', N'Петя Петров', N'Пасспорт')

GO

ALTER TABLE [dbo].[Departament] WITH CHECK ADD CONSTRAINT [FK\_Departament\_Country] FOREIGN KEY([CountryName])

REFERENCES [dbo].[Country] ([ContryName])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Departament] CHECK CONSTRAINT [FK\_Departament\_Country]

GO

ALTER TABLE [dbo].[Employee] WITH CHECK ADD CONSTRAINT [FK\_Employee\_Departament] FOREIGN KEY([DeptName])

REFERENCES [dbo].[Departament] ([DeptName])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Employee] CHECK CONSTRAINT [FK\_Employee\_Departament]

GO

ALTER TABLE [dbo].[Folder] WITH CHECK ADD CONSTRAINT [FK\_Folder\_Employee] FOREIGN KEY([EmpName])

REFERENCES [dbo].[Employee] ([EmpName])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Folder] CHECK CONSTRAINT [FK\_Folder\_Employee]

GO

USE [master]

GO

ALTER DATABASE [Khalilullin\_215] SET READ\_WRITE

GO

**Результаты выполнения работы:**

Мы научились создавать бд и её таблицы, создвать каскадные связи между ними а так же проверять работу каскадных связей.