**Лабораторная работа № 17.**

**Создание отношений между таблицами средствами SQL**

Самусев Д. А. АСОИ-181

**Цель**: создание отношений между таблицами средствами Т-SQL.

**Задание**.

Необходимо установить отношения между резервными таблицами из лабораторной работы № 16, соответствующие отношениям между основными таблицами, средствами T-SQL.

**SQL скрипты.**

USE JustInMind;

CREATE TABLE UsersCopy(

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [varchar](50) NOT NULL,

[Password] [varchar](50) NULL,

[RoleId] [int] NOT NULL,

[DeleteDate] [DateTime] NULL)

ALTER TABLE UsersCopy WITH CHECK

ADD CONSTRAINT [FK\_Users\_Roles]

FOREIGN KEY([RoleId])

REFERENCES [dbo].[Roles] ([Id])

ON UPDATE CASCADE

ON DELETE CASCADE

ALTER TABLE [dbo].[Users] CHECK CONSTRAINT [FK\_Users\_Roles]

CREATE TABLE TasksCopy(

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [varchar](50) NOT NULL,

[Description] [varchar](250) NULL,

[UrgencyId] [int] NOT NULL,

[CategoryId] [int] NOT NULL,

[UserId] [int] NOT NULL,

[StateId] [int] NOT NULL,

[DeleteDate] [DateTime] NULL)

ALTER TABLE TasksCopy WITH CHECK ADD CONSTRAINT [FK\_Tasks\_Categories] FOREIGN KEY([CategoryId])

REFERENCES [dbo].[Categories] ([Id])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE TasksCopy CHECK CONSTRAINT [FK\_Tasks\_Categories]

GO

ALTER TABLE TasksCopy WITH CHECK ADD CONSTRAINT [FK\_Tasks\_States] FOREIGN KEY([StateId])

REFERENCES [dbo].[States] ([Id])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

CREATE TABLE CommentsCopyWithDeleteDate(

[Id] [int] IDENTITY(1,1) NOT NULL,

[Text] [varchar](250) NOT NULL,

[TaskId] [int] NOT NULL,

[UserId] [int] NOT NULL,

[DeleteDate] [DateTime] NULL)

ALTER TABLE CommentsCopyWithDeleteDate WITH CHECK ADD CONSTRAINT [FK\_Comments\_Tasks] FOREIGN KEY([TaskId])

REFERENCES [dbo].[Tasks] ([Id])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Comments] CHECK CONSTRAINT [FK\_Comments\_Tasks]

GO

ALTER TABLE [dbo].[Comments] WITH CHECK ADD CONSTRAINT [FK\_Comments\_Users] FOREIGN KEY([UserId])

REFERENCES [dbo].[Users] ([Id])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Comments] CHECK CONSTRAINT [FK\_Comments\_Users]