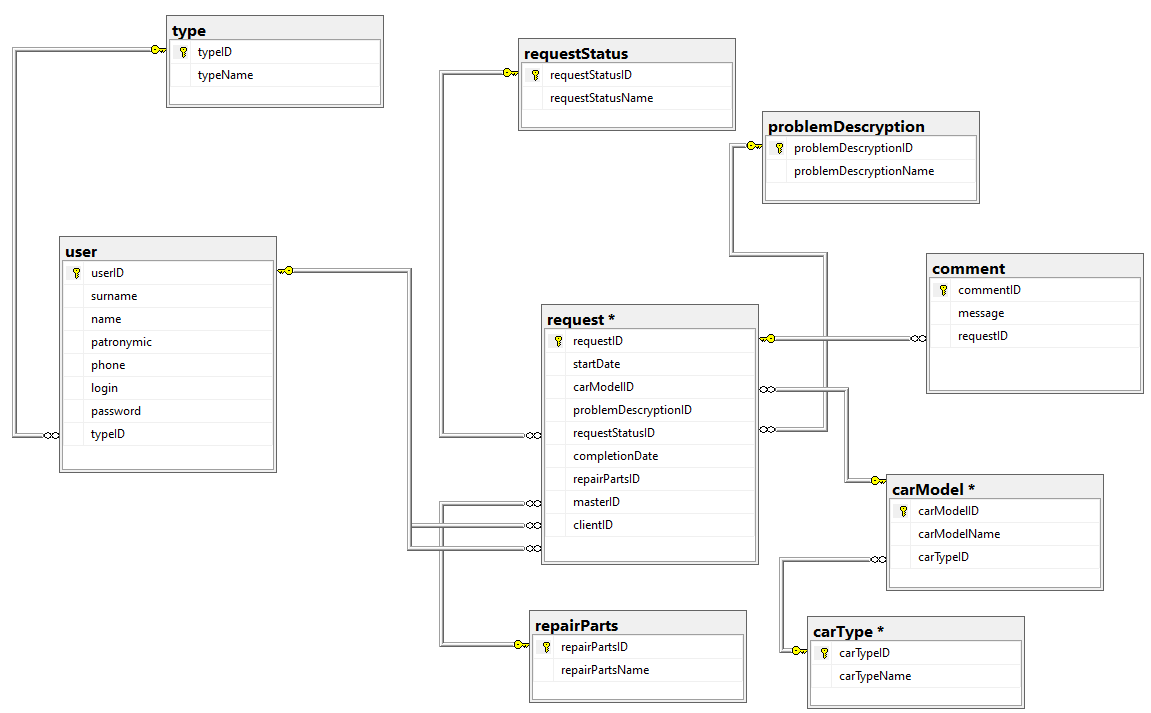
ER-модель бд



Словарь данных

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | carTypeID | INTEGER | Y | Auto Increment |
|  | carTypeName | NVARCHAR (50) | Y |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | carModelID | INTEGER | Y | Auto Increment |
|  | carModelName | NVARCHAR (MAX) | Y |  |
| FK carType (carTypeID) | carTypeID | INTEGER | Y | On delete(update) cascade |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | commentID | INTEGER | Y | Auto Increment |
|  | message | NVARCHAR (50) | Y |  |
| FK request (requestID) | requestID | INTEGER | Y | On delete(update) cascade |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | problemDescryptionID | INTEGER | Y | Auto Increment |
|  | problemDescryptionName | NVARCHAR (50) | Y |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | repairPartsID | INTEGER | Y | Auto Increment |
|  | repairPartsName | NVARCHAR (50) | Y |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | requestStatusID | INTEGER | Y | Auto Increment |
|  | requestStatusName | NVARCHAR (50) | Y |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | typeID | INTEGER | Y | Auto Increment |
|  | typeName | NVARCHAR (50) | Y |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | requestID | INTEGER | Y | Auto Increment |
|  | startDate | Date | Y |  |
| FK carModel (carModelID) | carModelID | INTEGER | Y |  |
| FK problemDescryption (problemDescryptionID) | problemDescryptionID | INTEGER | Y |  |
| FK requestStatus (requestStatusID) | requestStatusID | INTEGER | Y |  |
|  | completionDate | Date | N |  |
| FK repairParts(repairPartsID) | repairPartsID | INTEGER | N |  |
| FK user (userID) | masterID | INTEGER | N |  |
| FK user (userID) | clientID | INTEGER | Y | On delete(update) cascade |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KEY** | **Имя поля** | **Тип данных / Размер** | **Необходимо?** | **Примечания** |
| PK | userID | INTEGER | Y | Auto Increment |
|  | surname | NVARCHAR (50) | Y |  |
|  | name | NVARCHAR (50) | Y |  |
|  | patronymic | NVARCHAR (50) | Y |  |
|  | phone | char(11) | Y | like '8[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]' |
|  | login | NVARCHAR (50) | Y |  |
|  | password | NVARCHAR (50) | Y |  |
| FK type (typeID) | typeID | INTEGER | Y | On delete(update) cascade |

Скрипт бд

USE [master]

GO

/\*\*\*\*\*\* Object: Database [z111] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

CREATE DATABASE [z111]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'z111', FILENAME = N'D:\MSSQL14.SQLSERVER\MSSQL\DATA\z111.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 10%)

LOG ON

( NAME = N'z111\_log', FILENAME = N'D:\MSSQL14.SQLSERVER\MSSQL\DATA\z111\_log.ldf' , SIZE = 1024KB , MAXSIZE = 2048GB , FILEGROWTH = 10%)

GO

ALTER DATABASE [z111] SET COMPATIBILITY\_LEVEL = 140

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [z111].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [z111] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [z111] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [z111] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [z111] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [z111] SET ARITHABORT OFF

GO

ALTER DATABASE [z111] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [z111] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [z111] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [z111] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [z111] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [z111] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [z111] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [z111] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [z111] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [z111] SET DISABLE\_BROKER

GO

ALTER DATABASE [z111] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [z111] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [z111] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [z111] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [z111] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [z111] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [z111] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [z111] SET RECOVERY SIMPLE

GO

ALTER DATABASE [z111] SET MULTI\_USER

GO

ALTER DATABASE [z111] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [z111] SET DB\_CHAINING OFF

GO

ALTER DATABASE [z111] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [z111] SET TARGET\_RECOVERY\_TIME = 0 SECONDS

GO

ALTER DATABASE [z111] SET DELAYED\_DURABILITY = DISABLED

GO

ALTER DATABASE [z111] SET QUERY\_STORE = OFF

GO

USE [z111]

GO

/\*\*\*\*\*\* Object: Table [dbo].[carModel] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[carModel](

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

[carModelName] [nvarchar](max) NOT NULL,

[carTypeID] [int] NOT NULL,

CONSTRAINT [PK\_carModel] PRIMARY KEY CLUSTERED

(

[carModelID] ASC

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

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[carType] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[carType](

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

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

CONSTRAINT [PK\_carType] PRIMARY KEY CLUSTERED

(

[carTypeID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[comment] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[comment](

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

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

[requestID] [int] NOT NULL,

CONSTRAINT [PK\_comment] PRIMARY KEY CLUSTERED

(

[commentID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[problemDescryption] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[problemDescryption](

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

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

CONSTRAINT [PK\_problemDescryption] PRIMARY KEY CLUSTERED

(

[problemDescryptionID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[repairParts] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[repairParts](

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

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

CONSTRAINT [PK\_repairParts] PRIMARY KEY CLUSTERED

(

[repairPartsID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[request] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[request](

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

[startDate] [date] NOT NULL,

[carModelID] [int] NOT NULL,

[problemDescryptionID] [int] NOT NULL,

[requestStatusID] [int] NOT NULL,

[completionDate] [date] NULL,

[repairPartsID] [int] NULL,

[masterID] [int] NULL,

[clientID] [int] NOT NULL,

CONSTRAINT [PK\_request] PRIMARY KEY CLUSTERED

(

[requestID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[requestStatus] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[requestStatus](

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

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

CONSTRAINT [PK\_requestStatus] PRIMARY KEY CLUSTERED

(

[requestStatusID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[type] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[type](

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

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

CONSTRAINT [PK\_type] PRIMARY KEY CLUSTERED

(

[typeID] ASC

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

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[user] Script Date: 30.10.2024 13:36:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[user](

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

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

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

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

[phone] [char](11) NOT NULL,

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

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

[typeID] [int] NOT NULL,

CONSTRAINT [PK\_users] PRIMARY KEY CLUSTERED

(

[userID] ASC

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

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[carModel] WITH CHECK ADD CONSTRAINT [FK\_carModel\_carType] FOREIGN KEY([carTypeID])

REFERENCES [dbo].[carType] ([carTypeID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[carModel] CHECK CONSTRAINT [FK\_carModel\_carType]

GO

ALTER TABLE [dbo].[comment] WITH CHECK ADD CONSTRAINT [FK\_comment\_request] FOREIGN KEY([requestID])

REFERENCES [dbo].[request] ([requestID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[comment] CHECK CONSTRAINT [FK\_comment\_request]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_carModel] FOREIGN KEY([carModelID])

REFERENCES [dbo].[carModel] ([carModelID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_carModel]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_problemDescryption] FOREIGN KEY([problemDescryptionID])

REFERENCES [dbo].[problemDescryption] ([problemDescryptionID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_problemDescryption]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_repairParts] FOREIGN KEY([repairPartsID])

REFERENCES [dbo].[repairParts] ([repairPartsID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_repairParts]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_requestStatus] FOREIGN KEY([requestStatusID])

REFERENCES [dbo].[requestStatus] ([requestStatusID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_requestStatus]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_user] FOREIGN KEY([masterID])

REFERENCES [dbo].[user] ([userID])

ON UPDATE SET NULL

ON DELETE SET NULL

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_user]

GO

ALTER TABLE [dbo].[request] WITH CHECK ADD CONSTRAINT [FK\_request\_user1] FOREIGN KEY([clientID])

REFERENCES [dbo].[user] ([userID])

GO

ALTER TABLE [dbo].[request] CHECK CONSTRAINT [FK\_request\_user1]

GO

ALTER TABLE [dbo].[user] WITH CHECK ADD CONSTRAINT [FK\_user\_type] FOREIGN KEY([typeID])

REFERENCES [dbo].[type] ([typeID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[user] CHECK CONSTRAINT [FK\_user\_type]

GO

ALTER TABLE [dbo].[user] WITH CHECK ADD CHECK (([phone] like '8[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]'))

GO

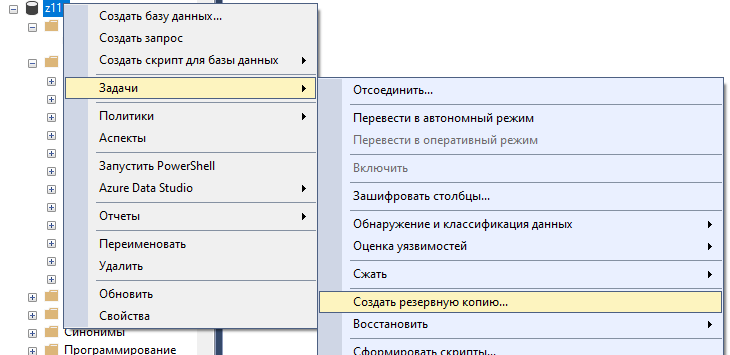
USE [master]

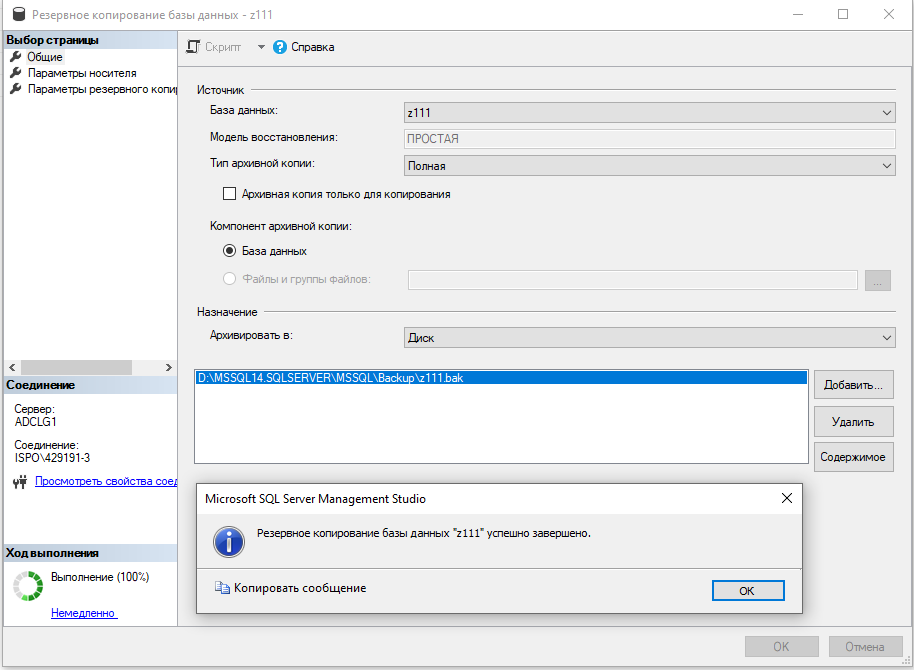
GO

ALTER DATABASE [z111] SET READ\_WRITE

GO

Скриншоты резервного копирования





Скриншоты готовых таблиц с заполненными данными

