# Описание базы данных

## Диаграммы

### ER

ХЭШ ТАБЛИЦА

#\* Дата

\* Хэш сумма

ФАЙЛЫ

#\* Код

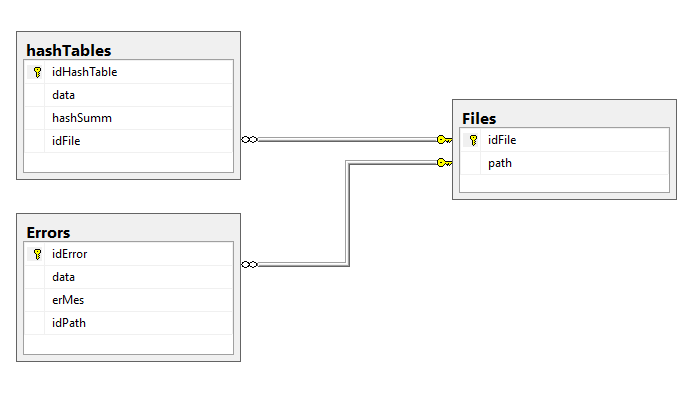
\* Путь

ОШИБКИ

#\* Дата

\* Описание

### DLM



## Скрипты

### Создание БД

CREATE DATABASE [HashTableDb]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'HashTableDb', FILENAME = N'D:\Program Files\Microsoft SQL Server\MSSQL11.SRVWS30\MSSQL\DATA\HashTableDb.mdf' , SIZE = 5120KB , FILEGROWTH = 1024KB )

LOG ON

( NAME = N'HashTableDb\_log', FILENAME = N'D:\Program Files\Microsoft SQL Server\MSSQL11.SRVWS30\MSSQL\DATA\HashTableDb\_log.ldf' , SIZE = 2048KB , FILEGROWTH = 10%)

GO

ALTER DATABASE [HashTableDb] SET COMPATIBILITY\_LEVEL = 110

GO

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

GO

ALTER DATABASE [HashTableDb] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [HashTableDb] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [HashTableDb] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [HashTableDb] SET ARITHABORT OFF

GO

ALTER DATABASE [HashTableDb] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [HashTableDb] SET AUTO\_CREATE\_STATISTICS ON

GO

ALTER DATABASE [HashTableDb] SET AUTO\_SHRINK OFF

GO

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

GO

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

GO

ALTER DATABASE [HashTableDb] SET CURSOR\_DEFAULT GLOBAL

GO

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

GO

ALTER DATABASE [HashTableDb] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [HashTableDb] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [HashTableDb] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [HashTableDb] SET DISABLE\_BROKER

GO

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

GO

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

GO

ALTER DATABASE [HashTableDb] SET PARAMETERIZATION SIMPLE

GO

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

GO

ALTER DATABASE [HashTableDb] SET READ\_WRITE

GO

ALTER DATABASE [HashTableDb] SET RECOVERY FULL

GO

ALTER DATABASE [HashTableDb] SET MULTI\_USER

GO

ALTER DATABASE [HashTableDb] SET PAGE\_VERIFY CHECKSUM

GO

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

GO

USE [HashTableDb]

GO

IF NOT EXISTS (SELECT name FROM sys.filegroups WHERE is\_default=1 AND name = N'PRIMARY') ALTER DATABASE [HashTableDb] MODIFY FILEGROUP [PRIMARY] DEFAULT

GO

### Создание таблиц

USE [HashTableDb]

CREATE TABLE [dbo].[files](

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

[path] [nvarchar](512) NOT NULL,

CONSTRAINT [PK\_Files] PRIMARY KEY CLUSTERED

(

[idFile] 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

CREATE TABLE [dbo].[hashTables](

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

[data] AS (getdate()),

[hashSumm] [char](32) NOT NULL,

[idFile] [int] NOT NULL,

CONSTRAINT [PK\_hashTables] PRIMARY KEY CLUSTERED

(

[idHashTable] 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

SET ANSI\_PADDING OFF

GO

ALTER TABLE [dbo].[hashTables] WITH CHECK ADD CONSTRAINT [FK\_hashTables\_Files] FOREIGN KEY([idFile])

REFERENCES [dbo].[files] ([idFile])

GO

ALTER TABLE [dbo].[hashTables] CHECK CONSTRAINT [FK\_hashTables\_Files]

GO

CREATE TABLE [dbo].[errors](

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

[data] AS (getdate()),

[erMes] [nvarchar](1024) NOT NULL,

[idPath] [int] NULL,

CONSTRAINT [PK\_Errors] PRIMARY KEY CLUSTERED

(

[idError] 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].[errors] WITH CHECK ADD CONSTRAINT [FK\_Errors\_Files] FOREIGN KEY([idPath])

REFERENCES [dbo].[files] ([idFile])

GO

ALTER TABLE [dbo].[errors] CHECK CONSTRAINT [FK\_Errors\_Files]

### Хранимые процедуры

create proc dbo.saveHash

(@hashSumm char(32), @path nvarchar(512))

as

begin

declare @idFile int

set @idFile=-1

select @idFile=f.idFile from dbo.files f

where f.path=@path

if @idFile=-1 begin

insert into dbo.files(path)

values(@path)

set @idFile=SCOPE\_IDENTITY();

end

insert into dbo.hashTables(hashSumm,idFile)

values (@hashSumm,@idFile)

return @idFile

end

go

create proc dbo.saveError(@erMes char(1024), @path nvarchar(512))

as

begin

if @path is not null

begin

declare @idFile int

set @idFile=-1

select @idFile=f.idFile from dbo.files f

where f.path=@path

if @idFile=-1 begin

insert into dbo.files(path)

values(@path)

set @idFile=SCOPE\_IDENTITY();

end

insert into dbo.errors(erMes,idPath)

values (@erMes,@idFile)

end

else

begin

insert into dbo.errors(erMes)

values (@erMes)

end

end