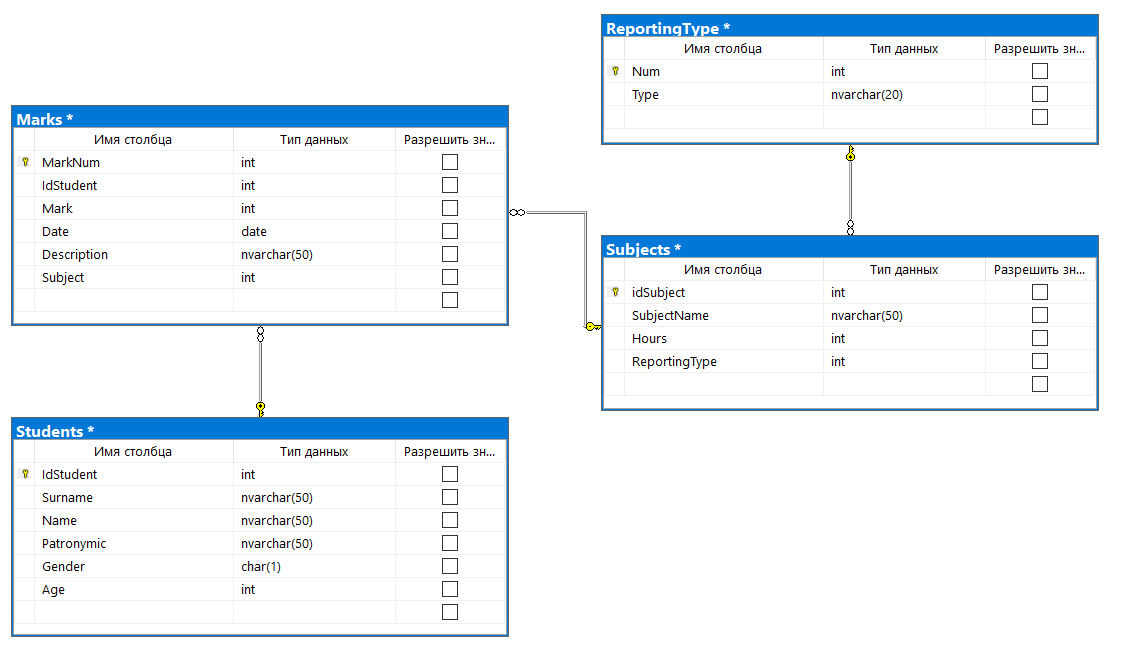
Отчет

Выполнила Сазонова Дарья ПКС-304

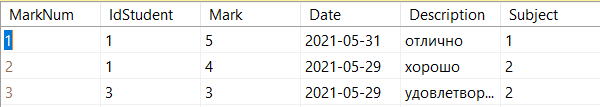
Вариант 1

Диаграмма базы данных:

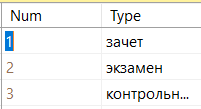


Скриншоты таблиц:

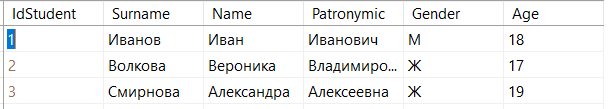
Marks:



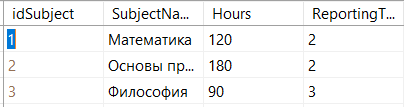
Reporting type:



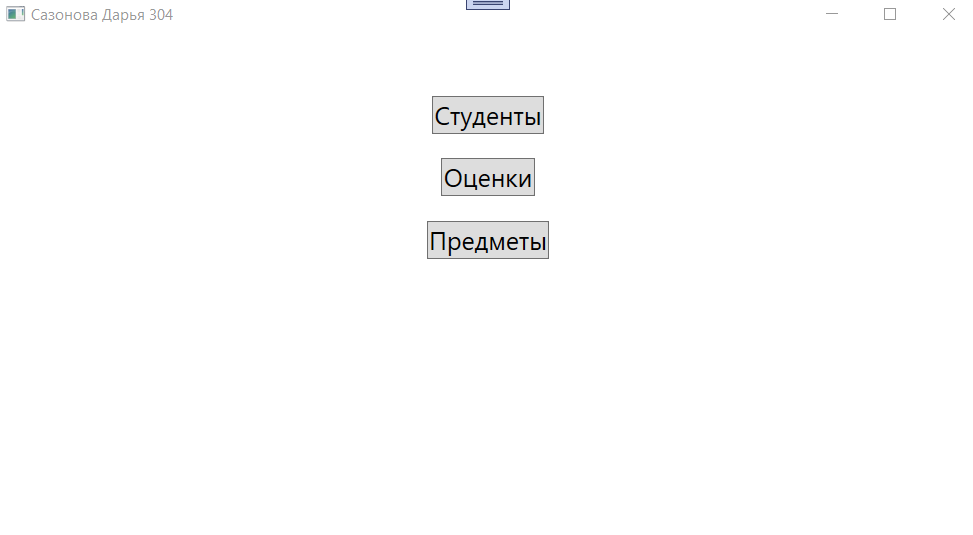
Students:



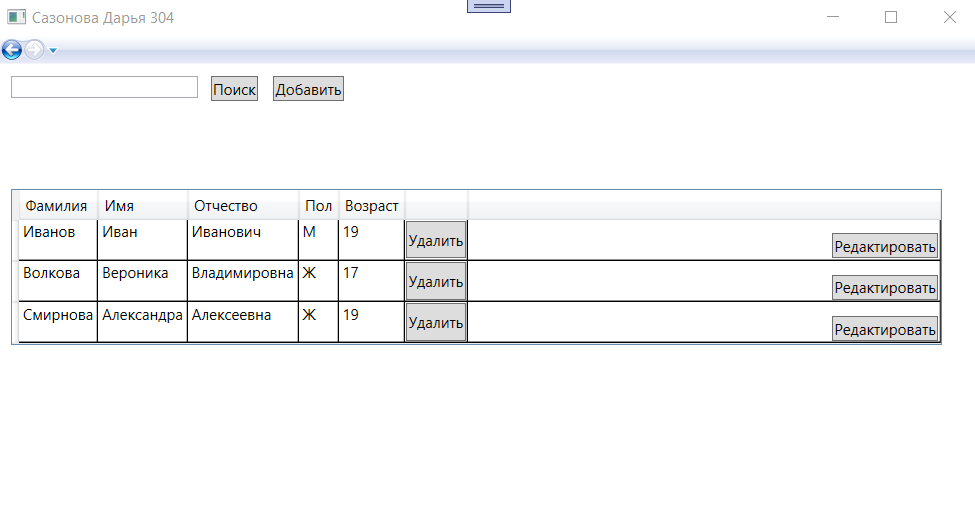
Subjects:



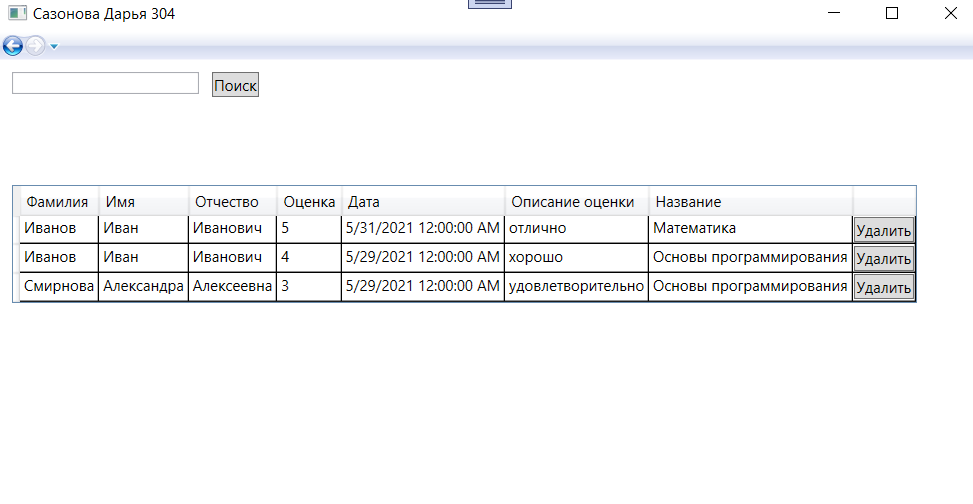
Просмотр таблиц:



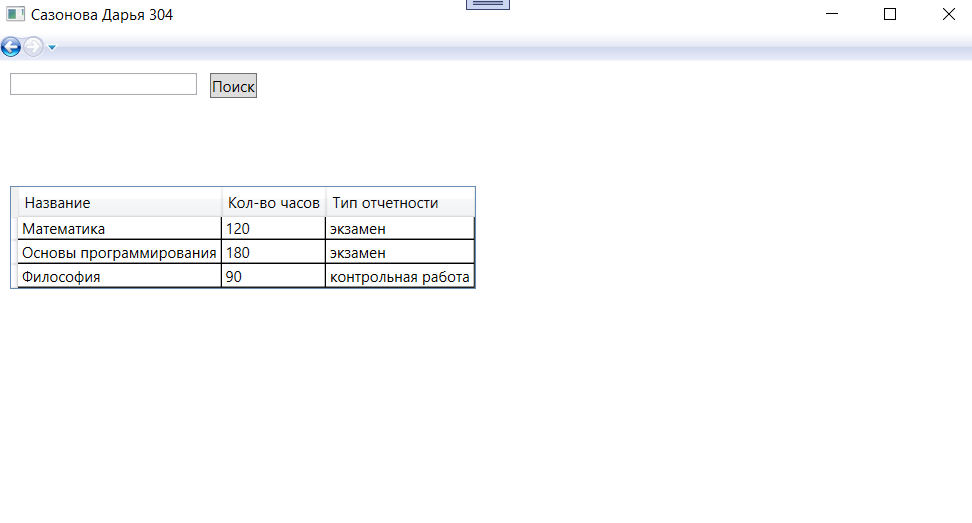
Просмотр таблицы Студентов:



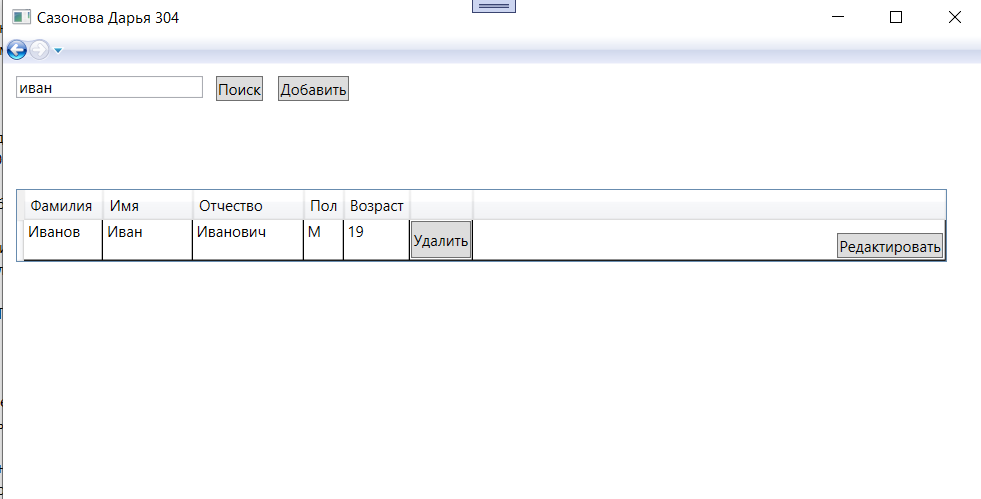
Просмотр таблицы оценки:



Просмотр таблицы предметы:



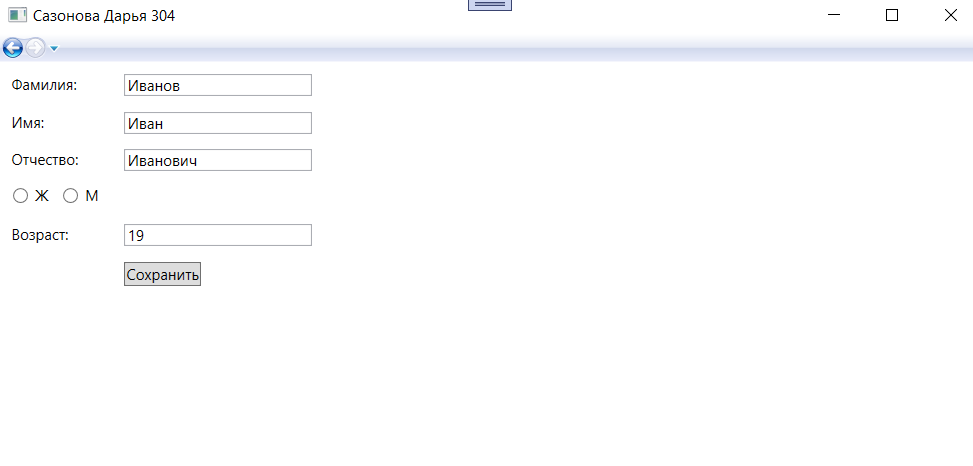
Поиск по всем полям(таблицы Студенты, Оценки, Предметы):



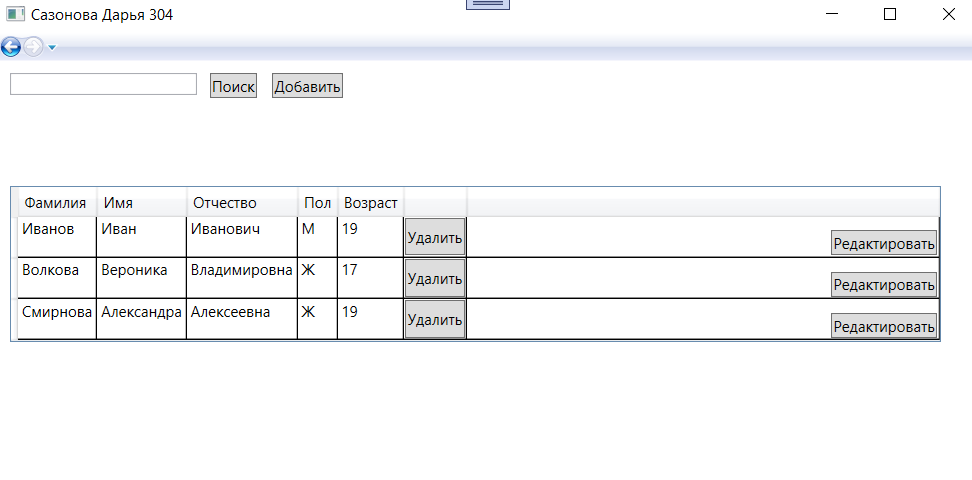
Добавление новых записей(в таблице Студенты):

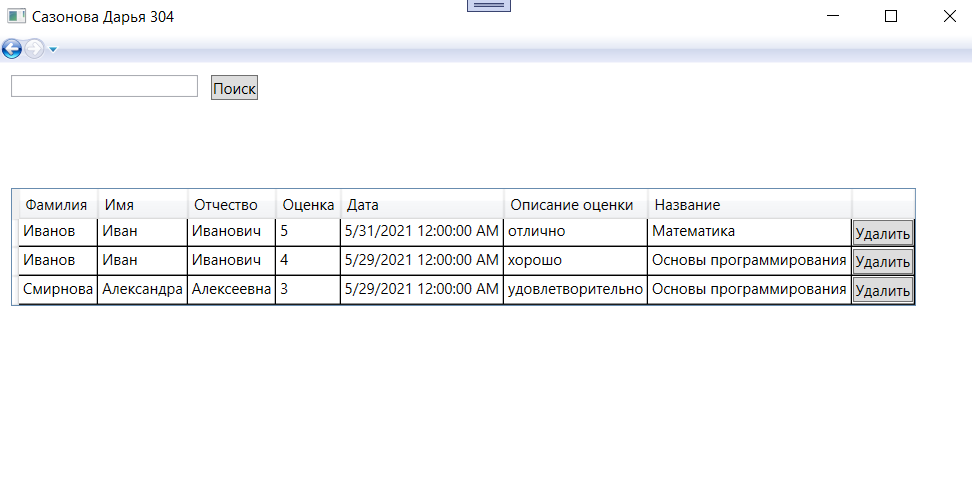


Редактирование(В таблице студенты):



Удаление в таблице Студенты и оценки:





Скрипт:

USE [master]

GO

/\*\*\*\*\*\* Object: Database [kvalEkzSazonova304] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

CREATE DATABASE [kvalEkzSazonova304]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'kvalEkzSazonova304', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL14.SQLEXPRESS\MSSQL\DATA\kvalEkzSazonova304.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

LOG ON

( NAME = N'kvalEkzSazonova304\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL14.SQLEXPRESS\MSSQL\DATA\kvalEkzSazonova304\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

GO

ALTER DATABASE [kvalEkzSazonova304] SET COMPATIBILITY\_LEVEL = 140

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [kvalEkzSazonova304].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [kvalEkzSazonova304] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET ARITHABORT OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [kvalEkzSazonova304] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [kvalEkzSazonova304] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET DISABLE\_BROKER

GO

ALTER DATABASE [kvalEkzSazonova304] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [kvalEkzSazonova304] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET RECOVERY SIMPLE

GO

ALTER DATABASE [kvalEkzSazonova304] SET MULTI\_USER

GO

ALTER DATABASE [kvalEkzSazonova304] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [kvalEkzSazonova304] SET DB\_CHAINING OFF

GO

ALTER DATABASE [kvalEkzSazonova304] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [kvalEkzSazonova304] SET TARGET\_RECOVERY\_TIME = 60 SECONDS

GO

ALTER DATABASE [kvalEkzSazonova304] SET DELAYED\_DURABILITY = DISABLED

GO

ALTER DATABASE [kvalEkzSazonova304] SET QUERY\_STORE = OFF

GO

USE [kvalEkzSazonova304]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Marks] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Marks](

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

[IdStudent] [int] NOT NULL,

[Mark] [int] NOT NULL,

[Date] [date] NOT NULL,

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

[Subject] [int] NOT NULL,

CONSTRAINT [PK\_Marks] PRIMARY KEY CLUSTERED

(

[MarkNum] 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].[ReportingType] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[ReportingType](

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

[Type] [nvarchar](20) NOT NULL,

CONSTRAINT [PK\_ReportingType] PRIMARY KEY CLUSTERED

(

[Num] 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].[Students] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Students](

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

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

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

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

[Gender] [char](1) NOT NULL,

[Age] [int] NOT NULL,

CONSTRAINT [PK\_Students] PRIMARY KEY CLUSTERED

(

[IdStudent] 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].[Subjects] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Subjects](

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

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

[Hours] [int] NOT NULL,

[ReportingType] [int] NOT NULL,

CONSTRAINT [PK\_Subjects] PRIMARY KEY CLUSTERED

(

[idSubject] 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 IDENTITY\_INSERT [dbo].[Marks] ON

INSERT [dbo].[Marks] ([MarkNum], [IdStudent], [Mark], [Date], [Description], [Subject]) VALUES (1, 1, 5, CAST(N'2021-05-31' AS Date), N'отлично', 1)

INSERT [dbo].[Marks] ([MarkNum], [IdStudent], [Mark], [Date], [Description], [Subject]) VALUES (2, 1, 4, CAST(N'2021-05-29' AS Date), N'хорошо', 2)

INSERT [dbo].[Marks] ([MarkNum], [IdStudent], [Mark], [Date], [Description], [Subject]) VALUES (3, 3, 3, CAST(N'2021-05-29' AS Date), N'удовлетворительно', 2)

SET IDENTITY\_INSERT [dbo].[Marks] OFF

GO

SET IDENTITY\_INSERT [dbo].[ReportingType] ON

INSERT [dbo].[ReportingType] ([Num], [Type]) VALUES (1, N'зачет')

INSERT [dbo].[ReportingType] ([Num], [Type]) VALUES (2, N'экзамен')

INSERT [dbo].[ReportingType] ([Num], [Type]) VALUES (3, N'контрольная работа')

SET IDENTITY\_INSERT [dbo].[ReportingType] OFF

GO

SET IDENTITY\_INSERT [dbo].[Students] ON

INSERT [dbo].[Students] ([IdStudent], [Surname], [Name], [Patronymic], [Gender], [Age]) VALUES (1, N'Иванов', N'Иван', N'Иванович', N'М', 19)

INSERT [dbo].[Students] ([IdStudent], [Surname], [Name], [Patronymic], [Gender], [Age]) VALUES (2, N'Волкова', N'Вероника', N'Владимировна', N'Ж', 17)

INSERT [dbo].[Students] ([IdStudent], [Surname], [Name], [Patronymic], [Gender], [Age]) VALUES (3, N'Смирнова', N'Александра', N'Алексеевна', N'Ж', 19)

SET IDENTITY\_INSERT [dbo].[Students] OFF

GO

SET IDENTITY\_INSERT [dbo].[Subjects] ON

INSERT [dbo].[Subjects] ([idSubject], [SubjectName], [Hours], [ReportingType]) VALUES (1, N'Математика', 120, 2)

INSERT [dbo].[Subjects] ([idSubject], [SubjectName], [Hours], [ReportingType]) VALUES (2, N'Основы программирования', 180, 2)

INSERT [dbo].[Subjects] ([idSubject], [SubjectName], [Hours], [ReportingType]) VALUES (3, N'Философия', 90, 3)

SET IDENTITY\_INSERT [dbo].[Subjects] OFF

GO

ALTER TABLE [dbo].[Marks] WITH CHECK ADD CONSTRAINT [FK\_Marks\_Students] FOREIGN KEY([IdStudent])

REFERENCES [dbo].[Students] ([IdStudent])

GO

ALTER TABLE [dbo].[Marks] CHECK CONSTRAINT [FK\_Marks\_Students]

GO

ALTER TABLE [dbo].[Marks] WITH CHECK ADD CONSTRAINT [FK\_Marks\_Subjects] FOREIGN KEY([Subject])

REFERENCES [dbo].[Subjects] ([idSubject])

GO

ALTER TABLE [dbo].[Marks] CHECK CONSTRAINT [FK\_Marks\_Subjects]

GO

ALTER TABLE [dbo].[Subjects] WITH CHECK ADD CONSTRAINT [FK\_Subjects\_ReportingType] FOREIGN KEY([ReportingType])

REFERENCES [dbo].[ReportingType] ([Num])

GO

ALTER TABLE [dbo].[Subjects] CHECK CONSTRAINT [FK\_Subjects\_ReportingType]

GO

ALTER TABLE [dbo].[Marks] WITH CHECK ADD CONSTRAINT [CK\_Marks] CHECK (([Mark]>=(1) AND [Mark]<=(5)))

GO

ALTER TABLE [dbo].[Marks] CHECK CONSTRAINT [CK\_Marks]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[viewMarks] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROC [dbo].[viewMarks]

AS

BEGIN

select MarkNum, Subjects.SubjectName, Surname, Name, Patronymic, Mark, Date, Description

From marks

join students on students.idStudent = marks.idStudent

join Subjects on Subjects.idSubject=marks.Subject

END

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[viewSearchMarks] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

Create PROC [dbo].[viewSearchMarks]

@seachString nvarchar(50)

AS

BEGIN

select Subjects.SubjectName, Surname, Name, Patronymic, Mark, Date, Description

From marks

join students on students.idStudent = marks.idStudent

join Subjects on Subjects.idSubject=marks.Subject

where SubjectName like '%'+@seachString+'%' or Surname like '%'+@seachString+'%' or name like '%'+@seachString+'%' or patronymic like '%'+@seachString+'%' or Mark like '%'+@seachString+'%' or Description like '%'+@seachString+'%' or Date like '%'+@seachString+'%'

END

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[viewSearchStudents] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROC [dbo].[viewSearchStudents]

@seachString nvarchar(50)

AS

BEGIN

select \*

From Students

where surname like '%'+@seachString+'%' or name like '%'+@seachString+'%' or patronymic like '%'+@seachString+'%'

END

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[viewSearcSubjects] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

Create PROC [dbo].[viewSearcSubjects]

@seachString nvarchar(50)

AS

BEGIN

select SubjectName, Hours, type

From subjects

join ReportingType on subjects.ReportingType=ReportingType.Num

where SubjectName like '%'+@seachString+'%' or Hours like '%'+@seachString+'%' or type like '%'+@seachString+'%'

END

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[viewSubjects] Script Date: 29.06.2021 12:07:51 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROC [dbo].[viewSubjects]

AS

BEGIN

select SubjectName, Hours, type

From subjects

join ReportingType on subjects.ReportingType=ReportingType.Num

END

GO

USE [master]

GO

ALTER DATABASE [kvalEkzSazonova304] SET READ\_WRITE

GO