

Учреждение образования
«БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ»
Кафедра информатики

Отчет по лабораторной работе №4

“Проектирование DML запросов SQL”

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Цель работы

Получить практические навыки построения баз данных с помощью диалекта DDL языка SQL.

Задание

Разработка SQL запросов схемы базы данных.

Практическая часть

1. Добавить факультеты КСИС и ФИТУ

```
INSERT INTO [dbo].[FACULTY]
    ([ID]
    ,[NAME])
VALUES
    (NEWID()
    ,'FKSIS')
GO
```

```
INSERT INTO [dbo].[FACULTY]
    ([ID]
    ,[NAME])
VALUES
    (NEWID()
    ,'FITU')
GO
```

	ID	NAME
1	7CFD692E-110B-4161-84A9-C4EF352E3726	FITU
2	396642DF-1067-43AA-991B-27D32048C136	FKSIS

2. Добавить новую группу с номером 123456. Внести в групп 123456 студентов Иванова и Петрова. Назначить студента Иванова старостой группы

-- Создание группы

```
INSERT INTO [dbo].[GROUPS]
    ([ID]
    ,[NAME]
    ,[HEAD_GROUP]
    ,[FACULTY_ID])
VALUES
    (NEWID()
    ,'123456'
    ,NULL
    ,(SELECT ID FROM FACULTY WHERE NAME='FKSIS'))
```

```
)
GO
```

```
-- Создание студентов и внесение их в группу 123456
INSERT INTO [dbo].[STUDENTS]
    ([ID]
    ,[LAST_NAME]
    ,[FIRST_NAME]
    ,[GROUP_ID])
VALUES
    (NEWID()
    ,'Ivanov'
    ,NULL
    ,(SELECT ID FROM GROUPS WHERE NAME='123456'))
GO
```

```
INSERT INTO [dbo].[STUDENTS]
    ([ID]
    ,[LAST_NAME]
    ,[FIRST_NAME]
    ,[GROUP_ID])
VALUES
    (NEWID()
    ,'Petrov'
    ,NULL
    ,(SELECT ID FROM GROUPS WHERE NAME='123456'))
GO
```

```
-- Назначение студента Иванова старостой группы
UPDATE [dbo].[GROUPS]
    SET [HEAD_GROUP] = (SELECT ID FROM STUDENTS WHERE LAST_NAME='Ivanov')
    WHERE NAME = '123456'
GO
```

	ID	LAST_NAME	FIRST_NAME	GROUP_ID
1	DA663F8F-13E4-47FA-8EF0-6A4145824F45	Ivanov	NULL	39A4B2AA-C5BD-4472-BEBF-B69E698727EE
2	0443FD2E-ADD3-4CD6-B804-A7513D50F6E4	Petrov	NULL	39A4B2AA-C5BD-4472-BEBF-B69E698727EE

	ID	NAME	HEAD_GROUP	FACULTY_ID
1	39A4B2AA-C5BD-4472-BEBF-B69E698727EE	123456	DA663F8F-13E4-47FA-8EF0-6A4145824F45	396642DF-1067-43AA-991B-27D32048C136

3. Добавить преподавателей Васечкина и Петечкина на факультеты КСИС и ФИТУ соответственно

```
INSERT INTO [dbo].[PREPODS]
    ([ID]
    ,[LAST_NAME]
    ,[FIRST_NAME]
    ,[FACULTY_ID])
VALUES
```

```

(NEWID()
,'Vasechkin'
,NULL
,(SELECT ID FROM FACULTY WHERE NAME='FKSIS'))
GO

```

```

INSERT INTO [dbo].[PREPODS]
([ID]
,[LAST_NAME]
,[FIRST_NAME]
,[FACULTY_ID])
VALUES
(NEWID()
,'Petechnik'
,NULL
,(SELECT ID FROM FACULTY WHERE NAME='Fitu'))
GO

```

	ID	LAST_NAME	FIRST_NAME	FACULTY_ID
1	0EECF667-5BC8-4435-9E06-418BAC428E42	Petechnik	NULL	7CFD692E-110B-4161-84A9-C4EF352E3726
2	68C54049-C214-40F1-8C5C-FC7D56BEE79F	Vasechkin	NULL	396642DF-1067-43AA-991B-27D32048C136

4. Назначить преподавателю Васечкину ведение предмета «Введение в специальность» для группы 123456. Проверить планы выполнения запроса Actual и Estimated (в отчёт о ЛР добавить снимки экрана).

```

-- Создание предмета «Введение в специальность»
INSERT INTO [dbo].[SUBJECTS]
([ID]
,[NAME]
,[FACULTY_ID])
VALUES
(NEWID()
,'Vvedenie v specialnost'
,(SELECT FACULTY_ID FROM PREPODS WHERE
LAST_NAME='Vasechkin'))
GO

```

```

-- Создание type_stydy_load
INSERT INTO [dbo].[TYPE_STUDY_LOAD]
([ID]
,[NAME])
VALUES
(NEWID()
,'Lection')
GO

```

```

-- Создание study_load

```

```

INSERT INTO [dbo].[STUDY_LOAD]
    ([ID]
    ,[hours]
    ,[SUBJECT_ID]
    ,[Type_STYDY_ID])
VALUES
    ('Lection'
    ,NULL
    ,(SELECT ID FROM SUBJECTS WHERE NAME='Vvedenie v specialnost')
    ,(SELECT ID FROM TYPE_STUDY_LOAD WHERE NAME='Lection'))
GO

-- Создание lesson
INSERT INTO [dbo].[LESSONS]
    ([GROUP_ID]
    ,[PREPOD_ID]
    ,[STUDY_ID])
VALUES
    ((SELECT ID FROM GROUPS WHERE NAME='123456')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME='Vasechkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE SUBJECT_ID=(SELECT ID FROM
SUBJECTS WHERE NAME='Vvedenie v specialnost'))))
GO
GO

```

SUBJECTS

	ID	NAME	FACULTY_ID
1	64DBE60B-2191-4C78-A001-9A2EC08FDE67	Vvedenie v specialnost	396642DF-1067-43AA-991B-27D32048C136

TYPE_STUDY_LOAD

	ID	NAME
1	AE8D2DF8-C547-4388-BEF7-D8EB86F98181	Lection

STUDY_LOAD

	ID	hours	SUBJECT_ID	Type_STYDY_ID
1	Lection	NULL	64DBE60B-2191-4C78-A001-9A2EC08FDE67	AE8D2DF8-C547-4388-BEF7-D8EB86F98181

LESSONS

	GROUP_ID	PREPOD_ID	STUDY_ID
1	39A4B2AA-C5BD-4472-BEBF-B69E698727EE	68C54049-C214-40F1-8C5C-FC7D56BEE79F	Lection

5. Поставить Студенту Иванову по предмету «Введение в специальность» оценку 10, отметить отсутствие студента Петрова на данном занятии

```

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]

```

```

,[STUDY_ID]
,[PREPODS_ID]
,[IS_ABSENT])
VALUES
(NEWID()
,GETDATE()
,10
,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Ivanov')
,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture')
,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
,'NO')

INSERT INTO [dbo].[RAITING]
([ID]
,[DATE]
,[VAL]
,[STUDENT_ID]
,[STUDY_ID]
,[PREPODS_ID]
,[IS_ABSENT])
VALUES
(NEWID()
,GETDATE()
,NULL
,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Petrov')
,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture')
,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
,'YES')

GO

```

ID	DATE	VAL	STUDENT_ID	STUDY_ID	PREPODS_ID	IS_ABSENT
1	23033B06-E23C-4E33-A3A6-3EE46F6C444E	2021-11-19 10	DA663F8F-13E4-47FA-8EF0-6A4145824F45	Lecture	68C54049-C214-40F1-8C5C-FC7D56BEE79F	NO
	ACE98A09-E94C-4FEC-9B36-BEEAF3B4A366	2021-10-27	803620D8-5524-4FBB-BE41-EB43210C1A6D	Lecture1	F413A4F2-D1A5-499C-88C5-742C12EC7BD8	YES

6. Наполнить базу таким образом, чтобы в базе появилась информация по различным предметам (минимум 4), по каждому из которых стояло бы не менее 3 отметок(минимум 5 студентам). По как минимум двум запросам вывести статистику выполнения;

-- Создание студентов.

```

INSERT INTO [dbo].[STUDENTS]
([ID]
,[LAST_NAME]
,[FIRST_NAME]
,[GROUP_ID])
VALUES
(NEWID()

```

```
, 'Sidorov'
, 'Sidr'
, (SELECT ID FROM GROUPS WHERE NAME='123456'))
```

```
INSERT INTO [dbo].[STUDENTS]
    ([ID]
    ,[LAST_NAME]
    ,[FIRST_NAME]
    ,[GROUP_ID])
VALUES
    (NEWID()
    , 'Pirozkov'
    , 'Pirog'
    , (SELECT ID FROM GROUPS WHERE NAME='123456'))
```

```
INSERT INTO [dbo].[STUDENTS]
    ([ID]
    ,[LAST_NAME]
    ,[FIRST_NAME]
    ,[GROUP_ID])
VALUES
    (NEWID()
    , 'Bulochkin'
    , 'Semen'
    , (SELECT ID FROM GROUPS WHERE NAME='123456'))
```

-- Создание предметов.

-- Предмет 1

```
INSERT INTO [dbo].[SUBJECTS]
    ([ID]
    ,[NAME]
    ,[FACULTY_ID])
VALUES
    (NEWID()
    , 'MMA'
    , (SELECT FACULTY_ID FROM PREPODS WHERE
LAST_NAME='Vasechkin'))
GO
```

```
INSERT INTO [dbo].[STUDY_LOAD]
    ([ID]
    ,[hours]
    ,[SUBJECT_ID]
    ,[Type_STYDY_ID])
VALUES
    ('Lecion2'
    , NULL
```

```

,(SELECT ID FROM SUBJECTS WHERE NAME='MMA')
,(SELECT ID FROM TYPE_STUDY_LOAD WHERE NAME='Lection'))
GO

INSERT INTO [dbo].[LESSONS]
    ([GROUP_ID]
    ,[PREPOD_ID]
    ,[STUDY_ID])
VALUES
    ((SELECT ID FROM GROUPS WHERE NAME='123456')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME='Vasechkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE SUBJECT_ID=(SELECT ID FROM
SUBJECTS WHERE NAME='MMA'))))
GO

-- Предмет 2
INSERT INTO [dbo].[SUBJECTS]
    ([ID]
    ,[NAME]
    ,[FACULTY_ID])
VALUES
    (NEWID()
    ,'MCHA'
    ,(SELECT FACULTY_ID FROM PREPODS WHERE
LAST_NAME='Petechnik'))
GO

INSERT INTO [dbo].[STUDY_LOAD]
    ([ID]
    ,[hours]
    ,[SUBJECT_ID]
    ,[Type_STYDY_ID])
VALUES
    ('Lection3'
    ,NULL
    ,(SELECT ID FROM SUBJECTS WHERE NAME='MCHA')
    ,(SELECT ID FROM TYPE_STUDY_LOAD WHERE NAME='Lection'))
GO

INSERT INTO [dbo].[LESSONS]
    ([GROUP_ID]
    ,[PREPOD_ID]
    ,[STUDY_ID])
VALUES
    ((SELECT ID FROM GROUPS WHERE NAME='123456')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME='Petechnik')
    ,(SELECT ID FROM STUDY_LOAD WHERE SUBJECT_ID=(SELECT ID FROM
SUBJECTS WHERE NAME='MCHA'))))

```


GO

-- Предмет 3

```
INSERT INTO [dbo].[SUBJECTS]
    ([ID]
    ,[NAME]
    ,[FACULTY_ID])
VALUES
    (NEWID()
    ,'MGIA'
    ,(SELECT FACULTY_ID FROM PREPODS WHERE
LAST_NAME='Petechnik'))
GO
```

```
INSERT INTO [dbo].[STUDY_LOAD]
    ([ID]
    ,[hours]
    ,[SUBJECT_ID]
    ,[Type_STYDY_ID])
VALUES
    ('Lecion4'
    ,NULL
    ,(SELECT ID FROM SUBJECTS WHERE NAME='MGIA')
    ,(SELECT ID FROM TYPE_STUDY_LOAD WHERE NAME='Lecion'))
GO
```

```
INSERT INTO [dbo].[LESSONS]
    ([GROUP_ID]
    ,[PREPOD_ID]
    ,[STUDY_ID])
VALUES
    ((SELECT ID FROM GROUPS WHERE NAME='123456')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME='Petechnik')
    ,(SELECT ID FROM STUDY_LOAD WHERE SUBJECT_ID=(SELECT ID FROM
SUBJECTS WHERE NAME='MGIA'))))
GO
```

-- Назначение оценок

-- Предмет МГИА

```
INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
```

```

        (NEWID()
        ,GETDATE()
        ,8
        ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Petrov')
        ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture4')
        ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
        ,'YES')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,7
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Bulochkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture4')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
    ,'YES')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,10
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Bulochkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture4')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
    ,'YES')
GO

-- Предмет МЧА
INSERT INTO [dbo].[RAITING]
    ([ID]

```

```

        ,[DATE]
        ,[VAL]
        ,[STUDENT_ID]
        ,[STUDY_ID]
        ,[PREPODS_ID]
        ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,6
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Sidorov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture3')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
    ,'NO')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,9
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Pirozkov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture3')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
    ,'YES')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,7
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Ivanov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture3')

```

```

        ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Petechnik')
        ,NO')
GO

-- Предмет MMA
INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,8
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Bulochkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecion2')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
    ,YES')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,9
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Ivanov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecion2')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
    ,YES')
GO

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]

```

```

        ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,10
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Petrov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture2')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
    ,'YES')
GO

-- Предмет Введение в специальность
INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,7
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Bulochkin')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
    ,'NO')

INSERT INTO [dbo].[RAITING]
    ([ID]
    ,[DATE]
    ,[VAL]
    ,[STUDENT_ID]
    ,[STUDY_ID]
    ,[PREPODS_ID]
    ,[IS_ABSENT])
VALUES
    (NEWID()
    ,GETDATE()
    ,9
    ,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Sidorov')
    ,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecture')
    ,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
    ,'YES')

INSERT INTO [dbo].[RAITING]
    ([ID]

```

```
,[DATE]
,[VAL]
,[STUDENT_ID]
,[STUDY_ID]
,[PREPODS_ID]
,[IS_ABSENT])
VALUES
(NEWID()
,GETDATE()
,8
,(SELECT ID FROM STUDENTS WHERE LAST_NAME = 'Pirozkov')
,(SELECT ID FROM STUDY_LOAD WHERE ID = 'Lecion')
,(SELECT ID FROM PREPODS WHERE LAST_NAME = 'Vasechkin')
,'YES')
```

STUDENTS

	ID	LAST_NAME	FIRST_NAME	GROUP_ID
1	F3B9D0F2-13A5-4BB7-8A1B-0BB63308C82B	Sidorov	Sidr	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2
2	DFCE7E9D-0565-4E69-BE25-519E11231BA7	Petrov	NULL	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2
3	8128A4B2-ECD7-4FEF-BAF5-6F0E56F5B317	Ivanov	NULL	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2
4	D81822FE-116C-4C4A-9D2C-77E105C0A3CE	Pirozkov	Pirog	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2
5	51D5C8B9-2109-498D-821A-8750DF0333BE	Bulochkin	Semen	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2

SUBJECTS

	ID	NAME	FACULTY_ID
1	61477368-CAB1-414B-86CA-4FDA9158847F	Vvedenie v specialnost	867DE6CC-A917-4D54-A303-4DB3547372FD
2	698EEF46-1697-4912-BD4C-8B9524E40030	MGIA	38E18EEF-F0E9-459B-8193-CD4E028F01B0
3	1DCA7330-AF54-4399-82CA-AE2B923538CA	MCHA	38E18EEF-F0E9-459B-8193-CD4E028F01B0
4	CD537ADD-D745-4A03-A1E9-E04786C4F108	MMA	867DE6CC-A917-4D54-A303-4DB3547372FD

STUDY_LOAD

	ID	hours	SUBJECT_ID	Type_STYDY_ID
1	Lecion	NULL	61477368-CAB1-414B-86CA-4FDA9158847F	E9806E4A-86F7-40A8-AED7-C53CE951721D
2	Lecion2	NULL	CD537ADD-D745-4A03-A1E9-E04786C4F108	E9806E4A-86F7-40A8-AED7-C53CE951721D
3	Lecion3	NULL	1DCA7330-AF54-4399-82CA-AE2B923538CA	E9806E4A-86F7-40A8-AED7-C53CE951721D
4	Lecion4	NULL	698EEF46-1697-4912-BD4C-8B9524E40030	E9806E4A-86F7-40A8-AED7-C53CE951721D

LESSONS

	GROUP_ID	PREPOD_ID	STUDY_ID
1	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	Lecion
2	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	Lecion2
3	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	Lecion3
4	776D8FD9-1C19-4245-AC9E-AAAB4C4E49B2	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	Lecion4

RAITING

ID	DATE	VAL	STUDENT_ID	STUDY_ID	PREPODS_ID	IS_ABSENT
1	2021-11-19	7	51D5C8B9-2109-498D-821A-8750DF0333BE	Lecton4	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	YES
2	2021-11-19	6	F3B9D0F2-13A5-4BB7-8A1B-0BB63308C82B	Lecton3	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	NO
3	2021-11-19	9	8128A4B2-ECD7-4FEF-BAF5-6F0E56F5B317	Lecton2	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	YES
4	2021-11-19	10	DFCE7E9D-0565-4E69-BE25-519E11231BA7	Lecton2	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	YES
5	2021-11-19	8	DFCE7E9D-0565-4E69-BE25-519E11231BA7	Lecton4	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	YES
6	2021-11-19	8	D81822FE-116C-4C4A-9D2C-77E105C0A3CE	Lecton	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	YES
7	2021-11-19	9	D81822FE-116C-4C4A-9D2C-77E105C0A3CE	Lecton3	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	YES
8	2021-11-19	7	8128A4B2-ECD7-4FEF-BAF5-6F0E56F5B317	Lecton3	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	NO
9	2021-11-19	10	8128A4B2-ECD7-4FEF-BAF5-6F0E56F5B317	Lecton	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	NO
10	2021-11-19	9	F3B9D0F2-13A5-4BB7-8A1B-0BB63308C82B	Lecton	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	YES
11	2021-11-19	8	51D5C8B9-2109-498D-821A-8750DF0333BE	Lecton2	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	YES
12	2021-11-19	10	51D5C8B9-2109-498D-821A-8750DF0333BE	Lecton4	E2C52CC6-C72A-4B30-BECF-DC8FA4D71BAC	YES
13	2021-11-19	7	51D5C8B9-2109-498D-821A-8750DF0333BE	Lecton	EA3A8C43-76F8-4475-ABBB-9B05D60C7467	NO

7.Добавить в БД произвольную файловую группу. Добавить .ndf файл;

```
ALTER DATABASE University
ADD FILEGROUP fileGroup1
GO
```

```
ALTER DATABASE University
ADD FILE
(
    NAME = testfile1,
    FILENAME = 'C:\Program Files\Microsoft SQL
Server\MSSQL15.SQLEXPRESS\MSSQL\DATA\testfile1.ndf',
    SIZE = 5MB,
    MAXSIZE = 100MB,
    FILEGROWTH = 5MB
)
TO FILEGROUP fileGroup1
GO
```

Name	Files	Read-Only	Default	Autogrow All Files
PRIMARY	1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
fileGroup	0	<input type="checkbox"/>	<input type="checkbox"/>	

Logical Name	File Type	Filegroup	Size (MB)	Autogrowth / Maxsize	Path	File Name
University	ROWS ...	PRIMARY	8	By 64 MB, Unlimited	C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA	University.mdf
University_log	LOG	Not Applicable	8	By 64 MB, Limited to ...	C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA	University_log.ldf
testFile	ROWS ...	fileGroup	5	By 5 MB, Limited to 1...	C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA	testFile.ndf

8. Очистить БД от внесённых данных

```
DELETE FROM [dbo].[RAITING]
DELETE FROM [dbo].[LESSONS]
DELETE FROM [dbo].[STUDY_LOAD]
DELETE FROM [dbo].[TYPE_STUDY_LOAD]
DELETE FROM [dbo].[SUBJECTS]
DELETE FROM [dbo].[PREPODS]
```

```
UPDATE [dbo].[GROUPS]
SET [HEAD_GROUP] = NULL
WHERE NAME = '123456'
```

```
DELETE FROM [dbo].[STUDENTS]
DELETE FROM [dbo].[GROUPS]
DELETE FROM [dbo].[FACULTY]
```

```
ALTER DATABASE University
REMOVE FILE testfile69
GO
```

```
ALTER DATABASE University
REMOVE FILEGROUP fileGroup1
GO
```