

Quick revision on creating database with files (create database school with 1 primary files, 2 secondary files and one transaction log)

```
create database school
on
primary (name=schooldata1,
         filename='E:\SD\schoold1.mdf',
         size=10MB,
         maxsize=15MB,
         filegrowth=20%) ,
        (name=schoolsecondary,
         filename='E:\SD\schoold2.ndf',
         size=3MB) ,
        (name=schoolsecondary1,
         filename='E:\SD\schoold3.ndf',
         size=3MB)

log on
      (name=schoollog1,
       filename='E:\SD\schoold4.ldf',
       size=3MB,
       maxsize=5MB,
       filegrowth=1MB)
```

**/\*Altering the school database\*/**

**/\*add file\*/**

```
alter database school

add file (name=schoolsecondary,

         filename='E:\SD\schoold3.ndf',

         size=3MB)
```

**/\*modify file\*/**

```
alter database school

modify file (name='schoollog', size=15MB)
```

**/\*remove file\*/**

```
alter database school

remove file schoolsecondary
```

**/\*dropping the school database\*/**

Drop database school

**/\*to know information\*/**

exec sp\_helpdb

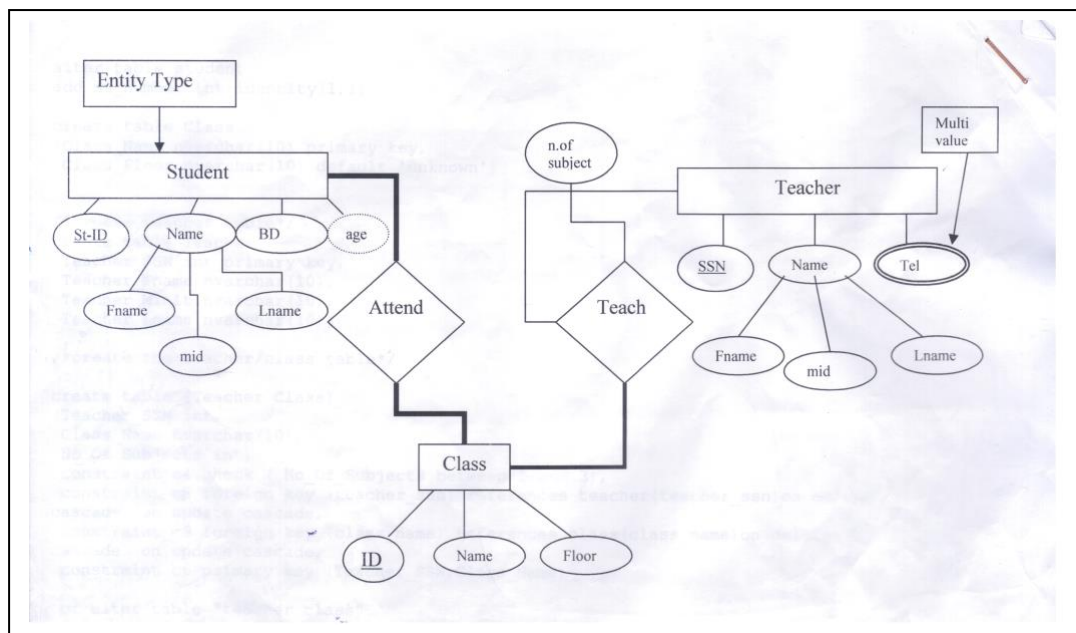
exec sp\_helpdb 'school'

exec sp\_helpfile 'schooldata'

exec sp\_helpfile 'schoollog'

exec sp\_helpfilegroup 'NewFG'

**/\*Performing the DDL on the school DB tables\*/**



## SQL Server Data Types (briefly mention the most important types)

### String data types:

Data type	Description
char(n)	Fixed width character string
varchar(n)	Variable width character string
varchar(max)	Variable width character string
text	Variable width character string
nchar	Fixed width Unicode string

nvarchar	Variable width Unicode string
nvarchar(max)	Variable width Unicode string
ntext	Variable width Unicode string
binary(n)	Fixed width binary string
varbinary	Variable width binary string
varbinary(max)	Variable width binary string
image	Variable width binary string

### Number data types:

Data type	Description
bit	Integer that can be 0, 1, or NULL
tinyint	Allows whole numbers from 0 to 255
smallint	Allows whole numbers between -32,768 and 32,767
int	Allows whole numbers between -2,147,483,648 and 2,147,483,647
bigint	Allows whole numbers between -9,223,372,036,854,775,808 and 9,223,372,036,854,775,807
smallmoney	Monetary data from -214,748.3648 to 214,748.3647
money	Monetary data from -922,337,203,685,477.5808 to 922,337,203,685,477.5807
float	Floating precision number data from -1.79E + 308 to 1.79E + 308.
real	Floating precision number data from -3.40E + 38 to 3.40E + 38

### Date data types:

Data type	Description
datetime	From January 1, 1753 to December 31, 9999 with an accuracy of 3.33 milliseconds
datetime2	From January 1, 0001 to December 31, 9999 with an accuracy of 100 nanoseconds
smalldatetime	From January 1, 1900 to June 6, 2079 with an accuracy of 1 minute
date	Store a date only. From January 1, 0001 to December 31, 9999

time	Store a time only to an accuracy of 100 nanoseconds
datetimeoffset	The same as datetime2 with the addition of a time zone offset
timestamp	Stores a unique number that gets updated every time a row gets created or modified. The timestamp value is based upon an internal clock and does not correspond to real time. Each table may have only one timestamp variable

**/\*creat student table\*/**

use school

create table Student

(Student\_ID int not null,

Student\_Fname nvarchar(10),

Student\_Mname nvarchar(10),

Student\_Lname nvarchar(10),

Student\_Bdate datetime)

**/\*add column to student\*/**

use school

alter table Student

add mail nvarchar(10)

**/\*remove column from the student\*/**

use school

alter table student

drop column mail

**/\*add datatype\*/**

**exec sp\_addtype** number,'int', 'not null'

**OR**

**Create Type** number **From** int **Not NULL**

**/\*test the datatype added\*/**

use school

alter table student

add st\_fax number

**/\*remove the datatype\*/**

use school

alter table student drop column st\_fax

use school

exec sp\_droptype number

OR

Drop Type number

**/\*remove the student table\*/**

use school

Drop table student

**/\*to know info about the student table\*/**

use school

exec sp\_help Student