

## Assignment 7 – SQL2019

1. Create a database called **ASM7** which has two data files: one belongs to Primary group, and the other belongs to the secondary file group named 'MyFileGroup' with the size, max size, file growth are 10MB, 15MB, and 20%, respectively.

2. Create the the following tables:

a. **"tbBatch"** table

Field name	Data type	Key field	Description
BatchNo	Varchar(10)	Primary key	
Size	Int		Number of students
TimeSlot	Varchar(20)		
RoomNo	Varchar(10)		

b. **"tbStudent"** table

Field name	Data type	Key field
Rollno	Varchar(10)	Primary key
LastName	Varchar(20), not null	
FirstName	Varchar(20), not null	
Gender	Varchar(1), not null, default = 'M'	
DOB	Date/time	
Address	Varchar(40)	
EnrollYear	Small int, not null, default current year	
BatchNo	Varchar(10)	Foreign key

- Write a query (check constraint) to accept only positive number and less than (<) 6 in the Size field of table tbBatch
  - Write a query (check constraint) to accept only 2 values 'M' and 'F' in the Gender field of table tbStudent
  - Write a query (check constraint) to accept only value of field EnrollYear >=2000
  - Add at least 4 records in table "tbBatch" and 8 records in table "tbStudent"
3. Write Queries to retrieve the following information :
    - a. list of students sorted by gender and date of birth
    - b. count number of students grouped by gender .
    - c. list of students who have more 18 year-old, consisting of the columns: rollno, full name (lastname + firstname), gender, dob, address, batchno, roomno
  4. Create a view **vwSchoolBoy** to contain information of schoolboys which consist of columns Rollno, LastName, FirstName, age, BatchNo and Timeslot.  
This view needs to check for domain integrity.
  5. Create a view **vwNewStudent** to see information of students enrolled in this year which contained the columns Rollno, full name, gender, DOB, BatchNo, roomNo.