Assignment 7 – SQL2012

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.