Assignment 1

Course Title: ***Database Management Systems Laboratory***

1. Exercise 1 (practice on SQL commands)
2. Practicing all the following DDL commands
   1. Creating a table
   2. Altering a table
   3. Drop a table
   4. Truncating a table
   5. Rename
3. Practicing all the following DML commands
   1. Inserting Rows into table
   2. Deleting Rows from table
   3. Updating data in a table
   4. Defining constraints
4. Assignment on DDL and DML commands
5. Suppose that a faculty wants to keep records about the students, the desired records should maintain this information about each student: (Roll No, Full name, CGPA, Age, and Gender)
6. Create the appropriate Table.
7. Write SQL Queries to answer the following problems:

* List the names of all female students.
* What is the age of the youngest male student?
* List the name and the CGPA for all students who got above 6.5 CGPA ordered by their CGPAs then their names.
* What is the Topper name?

1. Since keeping the age of the student as an attribute requires frequent changes (each year) propose a solution and implement it.
2. A supermarket manager likes to keep records about all the items in his store these records should hold the following information about each item (the item identifier item\_id, the item name, the item price, expiration date of the item, quantity in hand)
3. Create the appropriate table.
4. Write sql queries to answer the following problems:  
       - List the names and prices for all items that have a quantity in hand >20.  
       - List the names of expired items.  
       - name the second most expensive item.

Alter the table structure to make sure that no negative value can be assigned to the price field