

Course Title: *Database Management Systems Laboratory*

Assignment 3

1. Exercise 1 (practice on SQL commands)

a. Practice all the following DDL commands

1. Creating a table
2. Altering a table
3. Drop a table
4. Truncating a table
5. Rename

b. Practice all the following DML commands

1. Inserting Rows into table
2. Deleting Rows from table
3. Updating data in a table
4. Defining constraints

2. Assignment on DDL and DML commands

A. 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)

a. Create the appropriate Table.

b. 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?

c. Since keeping the age of the student as an attribute requires frequent changes (each year) propose a solution and implement it.

B. 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)

a. Create the appropriate table.

b. 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

