**Database Management Systems**

**Course code: CS/AI 3103**

**Assignment -2**

**Note:** This assignment includes the queries on DDL and DML statements. Consider the database or tables you have created in assignment-1 to solve this assignment.

**Instructions to open mysql and using created database**

1. **Start mysql using**

$ mysql -u root –p

(enter password if prompted)

1. **Use database inside which you have created and store the tables given in the assignment-1**

use studentdb;

1. **Use the following table created in assignment-1 to solve this assignment**

Student (snum, sname, major, standing, age)

Faculty (fid, fname, deptid)

Class (name, meets, room, fid)

Enrolled (snum, cname)

1. **Exercise on Altering records in a table: -**

**Alter Table- ADD column**

**Syntax: Alter table table\_name add column\_name datatype;**

1)Write the sql query toadd a column **telephone** of datatype integer of size 10 to the student table.

**Solution: Alter table student ADD telephone int(10);**

2)Write the sql query to add a column **Roll\_no** of datatype integer of size 10 as the first column of the student table.

**Solution: Alter table student add Roll\_no INT(10) FIRST;**

1. Write the sql query to add a column **state** of datatype varchar of size 20. Add this column after sname column to the student table.

**Solution: Alter table student add state varchar(20) after sname;**

**Alter Table- Modify column**

**Syntax: Alter table table\_name modify column column\_name datatype;**

1. Write the sql query to change the data type of the column **age** to integer of size 10 in the student table.

**Solution: Alter table student modify column age int(10);**

**Alter Table- Drop Column**

**Syntax: Alter table table\_name drop column column\_name;**

1. Write the sql query to drop the existing column telephone from the table student.

**Solution: Alter table student drop column telephone;**

1. **Exercise on renaming the table: -**

**Syntax: rename table old\_table\_name to new\_table\_name;**

**Or**

**Syntax: Alter table old\_table\_name rename new\_table\_name;**

1. Write the sql query to rename the table enrolled to enrolment.

**Solution: rename table enrolled to enrolment;**

1. **Exercise on updating records in a table: -**

**Syntax: Update table\_name set column1 = value1, column2 = value2,… where condition;**

1. Write the sql query to update the age of the student to 23 for snum=05593.

**Solution: update student set age=23 where snum=05593;**

1. Write the sql query to change the meets and room column of class table with ‘MWF 10’ and ‘R127’ for class name is ‘operating system design’.

**Solution: update class set meets=** '**MWF 10**'**, room=** '**R127**' **where name=**'**operating system design**'**;**

1. **Exercise on truncate operation on the table: -**

**Syntax: truncate table table\_name;**

1. Write the sql query to truncate the table enrolled.

**Solution: Truncate Table enrolled;**

**Exercise on deleting records in a table: -**

**Delete all records**

**Syntax: Delete from table\_name;**

1. Write the sql query to delete all rows of enrolled table without deleting the table.

**Solution: Delete from enrolled;**

**Delete Specific records**

**Syntax: Delete from table\_name where condition;**

1. Write the sql query to delete the student details whose sname is “Thomas Robinson”.

**Solution: Delete from student where sname =** '**Thomas Robinson**'**.**

**Exercise on Drop table: -**

**Use the Drop Statement to Remove a table**

**Syntax: Drop table table\_name;**

1. Write the sql query to drop table enrolled.

**Solution: Drop table enrolled;**

**Use the Drop Statement to Remove only Existing Tables**

**Syntax: Drop table if exists table\_name;**

1. Write the sql query to drop table class.

**Solution: Drop table if exists class.**

**How to Drop Multiple tables**

**Syntax: Drop table if exists table1, table2, table3;**

1. Write the sql query to drop table.

**Solution: Drop table if exists class, faculty;**