EXERCISE 1: SQL INTRODUCTION (DDL Commands)

Faculty Name: Dr. Balasundaram A
Slot: L43+L44
Class Number: CH2021221000708
Date: 04/08/2021   **Due Date for Submission: 08/08/2021**

DBMS LAB ASSIGNMENT 1 MEHER SHRISHTI NIGAM 20BRS1193

Logging into user:

```
SQL*Plus: Release 19.0.0.0.0 - Production on Tue Aug 17 22:38:51 2021
Version 19.3.0.0.0

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Enter user-name: c##meher1193
Enter password:
Last Successful login time: Tue Aug 17 2021 22:21:00 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
```

1. Create the following tables:
    a. Department(deptid, dname, location)
    b. Student(regnum, name, deptid, semester, age)
    c. Faculty(fid, fname, deptid)
    d. Class(cname, slot, room, fid)
    e. Enrolled(regnum, cname)

Creating tables with required fields using command –

CREATE TABLE table_name (field_1 datatype(n), field_2 datatype(n) ……) ;

Using varchar2 and number(p,q) as field datatypes.

```
SQL> CREATE TABLE Department_20brs1193 (deptid varchar2(10), dname varchar2(20), location varchar2(20));

Table created.

SQL> CREATE TABLE Student_20brs1193 (regnum varchar2(9), name varchar2(20), deptid varchar2(10), semester varchar2(10), age number(3,1));

Table created.

SQL> CREATE TABLE Faculty_20brs1193 (fid varchar2(10), fname varchar2(10), deptid varchar2(10));

Table created.

SQL> CREATE TABLE Class_20brs1193 (cname varchar2(10), slot varchar2(10), room number(4,0), fid varchar2(10));

Table created.

SQL> CREATE TABLE Enrolled_20brs1193 (regnum varchar2(9), cname varchar2(10));

Table created.
```

2. Include two more fields namely gender and mobile the student table.
3. Change the field name to SName in the Student table.
4. Change the field fid to FacultyID in Faculty and Class tables.

Altering the required fields with the commands –

ALTER TABLE table_name ADD field_name datatype(n);

ALTER TABLE table_name RENAME COLUMN old_field_name TO new_field_name;

```
SQL> ALTER TABLE Student_20brs1193 ADD gender varchar2(10);

Table altered.

SQL> ALTER TABLE Student_20brs1193 ADD mobile varchar2(10);

Table altered.

SQL> ALTER TABLE Student_20brs1193 RENAME COLUMN name TO SName;

Table altered.

SQL> ALTER TABLE Faculty_20brs1193 RENAME COLUMN fid TO FacultyID;

Table altered.

SQL> ALTER TABLE Class_20brs1193 RENAME COLUMN fid TO FacultyID;

Table altered.
```

Printing out the descriptions of the final tables using the command –

DESC table_name;

```
SQL> desc Department_20brs1193;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 DEPTID                                             VARCHAR2(10)
 DNAME                                              VARCHAR2(20)
 LOCATION                                           VARCHAR2(20)
```

```
SQL> desc Student_20brs1193;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 REGNUM                                             VARCHAR2(9)
 SNAME                                              VARCHAR2(20)
 DEPTID                                             VARCHAR2(10)
 SEMESTER                                           VARCHAR2(10)
 AGE                                                NUMBER(3,1)
 GENDER                                             VARCHAR2(10)
 MOBILE                                             VARCHAR2(10)
```

```
SQL> desc Faculty_20brs1193;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 FACULTYID                                          VARCHAR2(10)
 FNAME                                              VARCHAR2(10)
 DEPTID                                             VARCHAR2(10)
```

```
SQL> desc Class_20brs1193;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CNAME                                              VARCHAR2(10)
 SLOT                                               VARCHAR2(10)
 ROOM                                               NUMBER(4)
 FACULTYID                                          VARCHAR2(10)
```

```
SQL> desc Enrolled_20brs1193;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 REGNUM                                             VARCHAR2(9)
 CNAME                                              VARCHAR2(10)
```

5. Drop the table named Enrolled.

Deleting a table using the command –

DROP TABLE table_name;

This command is rarely used.

```
SQL> DROP TABLE Enrolled_20brs1193;

Table dropped.

SQL> desc Enrolled_20brs1193;
ERROR:
ORA-04043: object Enrolled_20brs1193 does not exist
```