LAB 3 submission

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**SCENARIO 1**

CREATE TABLE Faculty

(faculty\_Id NUMBER(6) PRIMARY KEY,

last\_name VARCHAR2(15) NOT NULL,

first\_name VARCHAR2(15) NOT NULL,

dept CHAR(3));

CREATE TABLE department

(dept\_code CHAR(3) PRIMARY KEY,

dept\_name VARCHAR2(20) NOT NULL

);

alter table department

add location char(7);

describe department

alter table Faculty

add Constraint faculty\_dept\_fk foreign key(dept) references department(dept\_code);

describe faculty;

describe department;

alter table faculty

modify last\_name varchar2(25);

describe faculty;

**SCENARIO 2**

CREATE DATABASE Library;

create table student

(stu\_ID NUMBER(6) PRIMARY KEY,

stfname varchar(20),

stlname varchar(20),

stcourse varchar(20),

styear NUMBER(4),

stcontact NUMBER(11),

stage NUMBER(2),

stbirthdate DATE default (sysdate)

);

create table book

(book\_id NUMBER (5) PRIMARY KEY,

bktitle varchar(20),

bkedition NUMBER(2),

bkauthor varchar(20),

bkpublisher varchar(20),

bkcopies NUMBER(10),

bk\_source varchar(20),

bk\_cost NUMBER(10),

bk\_remarks varchar(20)

);

create table users

(staff\_id NUMBER (5) PRIMARY KEY,

stffname varchar(20),

stflname varchar(20),

stfcontactnumber NUMBER(11),

stfemail varchar(50),

stfaddress varchar(100),

stfpassword varchar(50),

stftype varchar(20)

);

CREATE TABLE Book\_Return\_Records(

borrowers\_ID Number(6) PRIMARY KEY,

book\_id Number NOT NULL FOREIGN KEY REFERENCES book(book\_id),

bktitle char NOT NULL FOREIGN KEY REFERENCES book(bktitle),

stu\_ID Number(6) NOT NULL FOREIGN KEY REFERENCES student(stu\_ID),

stfname Char NOT NULL FOREIGN KEY REFERENCES student(stfname),

staff\_id Number(6) NOT NULL FOREIGN KEY REFERENCES users(staff\_ID),

stffname Char FOREIGN KEY REFERENCES users(stffname),

studentNOcopies Number(20),

releasedate Char,

dueDate Char(8) ,

bkdatereturn Char(8)

);

CREATE TABLE Borrowers\_records(

borrowers\_ID Number(6) NOT NULL FOREIGN KEY REFERENCES Book\_Return\_Records(borrowers\_ID),

book\_id Number Number(6) NOT NULL FOREIGN KEY REFERENCES book(book\_id),

bktitle char NOT NULL FOREIGN KEY REFERENCES book(bktitle),

stu\_ID Number(6) NOT NULL FOREIGN KEY REFERENCES student(stu\_ID),

stfname Char NOT NULL FOREIGN KEY REFERENCES student(stfname),

staff\_id Number(6) NOT NULL FOREIGN KEY REFERENCES users(staff\_ID),

stffname Char FOREIGN KEY REFERENCES users(stffname),

studentNOcopies Number FOREIGN KEY REFERENCES Book\_Return\_Records(studentNOcopies),

releaseDate Char FOREIGN KEY REFERENCES Book\_Return\_Records(releaseDate),

dueDate Char(8) NOT NULL FOREIGN KEY REFERENCES Book\_Return\_Records(dueDate)

);

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