**EXERCISE 1**

create database faculty1;

use faculty1;

**FACULTYDETAILS TABLE**

create table FacultyDetails (

Faculty\_Id varchar(20) PRIMARY KEY,

Title varchar(7),

Faculty\_Name varchar(30),

Faculty\_Location varchar(30),

Faculty\_Track varchar(15),

Faculty\_Qualification varchar(100),

Faculty\_Experience int,

Faculty\_Email varchar (100),

Faculty\_Password varchar(20)

);

**BATCHDETAILS TABLE**

create table BatchDetails(

Batch\_Id varchar(20) PRIMARY KEY check(batch\_id like 'S%') ,

Batch\_faculty varchar(20) NOT NULL,

Batch\_DEPT\_Name varchar(30) NOT NULL );

DROP table batchdetails;

create table ModuleDetails(

Module\_Id varchar(20) PRIMARY KEY CHECK(UPPER ('Module\_Id')),

Module\_Name varchar(40),

Module\_Duration int );

**STUDENTDETAILS TABLE**

create table StudentDetails(

Student\_Id varchar(20) PRIMARY KEY check(batch\_id like 'S%'),

Title varchar(7) NOT NULL,

Student\_Name varchar(30) NOT NULL,

Student\_Location varchar(30) NOT NULL,

Student\_Track varchar(15) NOT NULL,

Student\_Qualification varchar(200) NOT NULL,

Student\_Email varchar (200) NOT NULL,

Student\_Password varchar(20)NOT NULL

);

**QUESTIONS TABLE**

create table Questions(

Question\_Id varchar(20) PRIMARY KEY check(batch\_id like 'Q%') ,

Module\_Id varchar(20) ,

Question\_text varchar(900),

FOREIGN KEY (Module\_Id) references ModuleDetails(Module\_Id));

**STUDENTS STATUS TABLE**

create table Student\_Status (

Student\_Id varchar(20),

Module\_Id varchar(20),

Batch\_Id varchar(20) ,

Faculty\_Id varchar(20),

Start\_Date varchar(20),

End\_Date varchar(20),

AFeedbackGiven varchar(20),

TFeedbackGiven varchar(20),

FOREIGN KEY (Student\_Id) references StudentDetails(Student\_Id),

FOREIGN KEY (Module\_Id) references ModuleDetails(Module\_Id),

FOREIGN KEY (Batch\_Id) references batchdetails(Batch\_Id),

FOREIGN KEY (Faculty\_Id) references FacultyDetails(Faculty\_Id));

**FACULTY FEEDBACK TABLE**

create table Faculty\_Feedback(

Faculty\_Id varchar(20),

Question\_Id varchar(20),

Batch\_Id varchar(20),

Module\_Id varchar(20),

Faculty\_Rating int,

FOREIGN KEY (Faculty\_Id) references FacultyDetails(Faculty\_Id),

FOREIGN KEY (Question\_Id) references Questions(Question\_Id),

FOREIGN KEY (Batch\_Id) references batchdetails(Batch\_Id),

FOREIGN KEY (Module\_Id) references ModuleDetails(Module\_Id));

**STUDENT FEEDBACK TABLE**

create table Student\_Feedback(

Student\_Id varchar(20),

Question\_Id varchar(20),

Module\_Id varchar(20),

Student\_Rating int,

FOREIGN KEY (Student\_Id) references StudentDetails(Student\_Id),

FOREIGN KEY (Question\_Id) references Questions(Question\_Id),

FOREIGN KEY (Module\_Id) references ModuleDetails(Module\_Id));

**EXERCISE 2**

CREATE database item;

use item;

**PRODUCT TABLE**

create table product(

PID int PRIMARY KEY,

PNAME varchar(30),

PRICE int NOT NULL);

insert into product values (1,'Mobile',3350);

insert into product values (2,'Laptop',41360);

insert into product(PID,PName) values (3,'Desktop'**); /\* This query will not execute since PRICE doesn't have default value & is set to not null. \*/**

**CUSTOMER TABLE**

create table customer(

CUSTID varchar(8) PRIMARY KEY,

PID int,

CUSTNAME varchar(40),

FOREIGN KEY (PID) references product(PID));

set foreign\_key\_checks=0;

Insert into customer values ('COO1',1,'TOM');

Insert into customer values ('COO2',11,'TIM');

**/\*Yes the second record is inserted properly because we have disabled foreign key constraint and thats why it allowed us to enter values\*/**

set foreign\_key\_checks=1;