**SQL queries for table creation:**

**1. CREATE TABLE tblAdminregistration (**

**AdminID int(11) NOT NULL AUTO\_INCREMENT,**

**FirstName varchar(100) NOT NULL,**

**LastName varchar(100) NOT NULL,**

**EmailAddress varchar(100) NOT NULL,**

**contactNumber bigint NOT NULL,**

**UserName varchar(100) NOT NULL,**

**PasswordforUserName varchar(100) NOT NULL,**

**PRIMARY KEY (AdminID));**

**2. CREATE TABLE tblBookDetails (**

**BookID int(11) NOT NULL AUTO\_INCREMENT,**

**BookCode varchar(100) NOT NULL,**

**DepartmentId int,**

**BookName varchar(100) NOT NULL,**

**BookAvailability int NOT NULL,**

**UpdatedUserID int NOT NULL,**

**UpdatedDate datetime,**

**PRIMARY KEY (BookID),**

**FOREIGN KEY (DepartmentID) REFERENCES tblDepartmentDetails(DepartmentID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE);**

**3. CREATE TABLE tblCourseDetails (**

**CourseID int(11) NOT NULL AUTO\_INCREMENT,**

**CourseCode varchar(100) NOT NULL,**

**CourseType varchar(100) NOT NULL,**

**DepartmentId int,**

**IsActive bit NOT NULL,**

**UpdatedUserID int NOT NULL,**

**UpdatedDate datetime,**

**PRIMARY KEY (CourseID),**

**FOREIGN KEY (DepartmentID) REFERENCES tblDepartmentDetails(DepartmentID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE);**

**4. CREATE TABLE tblDepartmentDetails (**

**DepartmentID int(11) NOT NULL AUTO\_INCREMENT,**

**DepartmentName varchar(100) NOT NULL,**

**DepartmentCode varchar(100) NOT NULL,**

**IsActive bit NOT NULL,**

**UpdatedUserID int NOT NULL,**

**UpdatedDate datetime,**

**PRIMARY KEY (DepartmentID));**

**5. CREATE TABLE tblfacultydetails (**

**`FacultyNumber` int(11) NOT NULL AUTO\_INCREMENT,**

**`FacultyFirstName` varchar(100) NOT NULL,**

**`FacultyLastName` varchar(100) NOT NULL,**

**`Qualification` varchar(45) NOT NULL,**

**`Designation` varchar(1000) NOT NULL,**

**`FacultyCode` varchar(45) NOT NULL,**

**PRIMARY KEY (`FacultyNumber`)**

**) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8;**

**6. CREATE TABLE tblfacultyxsubjects (**

**`FacultyXSubjectID` int(11) NOT NULL AUTO\_INCREMENT,**

**`FacultyID` int(11) NOT NULL,**

**`SubjectID` int(11) NOT NULL,**

**`UpdatedDate` datetime NOT NULL,**

**`IsActive` int(11) DEFAULT NULL,**

**PRIMARY KEY (`FacultyXSubjectID`),**

**KEY `SubjectID\_idx` (`SubjectID`),**

**KEY `FacultyID\_idx` (`FacultyID`),**

**CONSTRAINT `FacultyID` FOREIGN KEY (`FacultyID`) REFERENCES `tblfacultydetails` (`FacultyNumber`) ON DELETE CASCADE ON UPDATE CASCADE,**

**CONSTRAINT `SubjectID` FOREIGN KEY (`SubjectID`) REFERENCES `tblsubjectdetails` (`SubjectID`) ON DELETE CASCADE ON UPDATE CASCADE**

**) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8;**

**7. CREATE TABLE tblstudentregistration (**

**StudentID int(11) NOT NULL AUTO\_INCREMENT,**

**FirstName varchar(100) NOT NULL,**

**LastName varchar(100) NOT NULL,**

**EmailAddress varchar(100) NOT NULL,**

**contactNumber bigint NOT NULL,**

**UserName varchar(100) NOT NULL,**

**PasswordforUserName varchar(100) NOT NULL,**

**PRIMARY KEY (StudentID));**

**8. Create table tblStudentsXBooks (**

**StudentsXBooksID int auto\_increment,**

**StudentID int,**

**BookID int,**

**IsActive int,**

**primary key(StudentsXBooksID),**

**Foreign key(StudentID) References tblstudentregistration(StudentID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE,**

**Foreign Key(BookID) References tblbookdetails(BookID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE**

**);**

**9. CREATE TABLE `msudatabase`.`tblstudentxsubjectsenroll` (**

**`StudentXSubjectID` INT NOT NULL AUTO\_INCREMENT,**

**`StudentID` INT NOT NULL,**

**`SubjectID` INT NOT NULL,**

**`IsActive` INT NOT NULL,**

**PRIMARY KEY (`StudentXSubjectID`));**

**10. CREATE TABLE tblSubjectDetails (**

**SubjectID int(11) NOT NULL AUTO\_INCREMENT,**

**SubjectCode varchar(100) NOT NULL,**

**DepartmentId int,**

**CourseID int(11) ,**

**IsActive bit NOT NULL,**

**UpdatedUserID int NOT NULL,**

**UpdatedDate datetime,**

**PRIMARY KEY (SubjectID),**

**FOREIGN KEY (DepartmentID) REFERENCES tblDepartmentDetails(DepartmentID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE,**

**FOREIGN KEY (CourseID) REFERENCES tblCourseDetails(CourseID)**

**ON DELETE SET NULL**

**ON UPDATE CASCADE);**

**Insert statement to insert the sample data into the tables**

INSERT INTO tbladminregistration

(FirstName,LastName,EmailAddress,ContactNumber,UserName,PasswordforUserName)

VALUES

('sairam','pullabhotla','sai.ram@gmail.com',1234567890,'sairamadmin','sairam');

INSERT INTO `msudatabase`.`tbldepartmentdetails`

(

`DepartmentName`,

`DepartmentCode`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'Computer Science',

'CS',

1,

1,

curdate());

INSERT INTO `msudatabase`.`tbldepartmentdetails`

(

`DepartmentName`,

`DepartmentCode`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'Public Health',

'PH',

1,

1,

curdate());

INSERT INTO `msudatabase`.`tbldepartmentdetails`

(

`DepartmentName`,

`DepartmentCode`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'Electrical and Electronics',

'EE',

1,

1,

curdate());

INSERT INTO `msudatabase`.`tbldepartmentdetails`

(

`DepartmentName`,

`DepartmentCode`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'Information Technology',

'IT',

1,

1,

curdate());

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'CS001',

'Masters',

1,

1,

1,

current\_timestamp(),

'Masters in Computer Science');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'PH001',

'Masters',

2,

1,

1,

current\_timestamp(),

'Masters in Public Health');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'EE001',

'Masters',

3,

1,

1,

current\_timestamp(),

'Masters in Electricals and Electronics');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'IT001',

'Masters',

4,

1,

1,

current\_timestamp(),

'Masters in Information Technology');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'CS002',

'Bachelor',

1,

1,

1,

current\_timestamp(),

'Bachelor of Computer Science');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'PH002',

'Bachelor',

2,

1,

1,

current\_timestamp(),

'Bachelor of Public Health');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'EE002',

'Bachelor',

3,

1,

1,

current\_timestamp(),

'Bachelor of Electricals and Electronics');

INSERT INTO `msudatabase`.`tblcoursedetails`

(

`CourseCode`,

`CourseType`,

`DepartmentId`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,`CourseName`)

VALUES

(

'IT002',

'Bachelor',

4,

1,

1,

current\_timestamp(),

'Bachelor of Information Technology');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS01',

1,

1,

1,

1,

current\_timestamp(),

'Algorithms and Datastructures');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS02',

1,

1,

1,

1,

current\_timestamp(),

'Distributed Systems');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS03',

1,

1,

1,

1,

current\_timestamp(),

'Computer Networks');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS04',

1,

1,

1,

1,

current\_timestamp(),

'Operating Systems');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS05',

1,

1,

1,

1,

current\_timestamp(),

'Professional Ethics');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH01',

2,

2,

1,

1,

current\_timestamp(),

'Biostatistics');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH02',

2,

2,

1,

1,

current\_timestamp(),

'Behavioral and Social Aspects of Public Health');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH03',

2,

2,

1,

1,

current\_timestamp(),

'Public Health System');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH04',

2,

2,

1,

1,

current\_timestamp(),

'Epidemiology');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH05',

2,

2,

1,

1,

current\_timestamp(),

'Environmental Health');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH06',

2,

6,

1,

1,

current\_timestamp(),

'Research Methods in Public Health');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH07',

2,

6,

1,

1,

current\_timestamp(),

'Community Health Analysis');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH08',

2,

6,

1,

1,

current\_timestamp(),

'Health Policy');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH09',

2,

6,

1,

1,

current\_timestamp(),

'Biological Aspects of Public Health');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'PH10',

2,

6,

1,

1,

current\_timestamp(),

'Management of Health Services Organization');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE01',

3,

3,

1,

1,

current\_timestamp(),

'Digital Signal Procesing');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE02',

3,

3,

1,

1,

current\_timestamp(),

'Power Circuits');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE03',

3,

3,

1,

1,

current\_timestamp(),

'Electromechanics');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE04',

3,

3,

1,

1,

current\_timestamp(),

'Electronic Circuits');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE05',

3,

3,

1,

1,

current\_timestamp(),

'Fields and Waves');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE06',

3,

7,

1,

1,

current\_timestamp(),

'Communication Networks');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE07',

3,

7,

1,

1,

current\_timestamp(),

'MicroComputers');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE08',

3,

7,

1,

1,

current\_timestamp(),

'Embedded DSP');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE09',

3,

7,

1,

1,

current\_timestamp(),

'Electric Machinery');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'EE10',

3,

7,

1,

1,

current\_timestamp(),

'Semsors and Instrumentation');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS06',

1,

5,

1,

1,

current\_timestamp(),

'C Programming');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS07',

1,

5,

1,

1,

current\_timestamp(),

'Basic Concepts of Programming');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS08',

1,

5,

1,

1,

current\_timestamp(),

'Visual C#');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS09',

1,

5,

1,

1,

current\_timestamp(),

'MicroProcessors');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'CS10',

1,

5,

1,

1,

current\_timestamp(),

'Database Management Systems');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'IT01',

4,

4,

1,

1,

current\_timestamp(),

'Introduction to Information Technology');

INSERT INTO `msudatabase`.`tblsubjectdetails`

(

`SubjectCode`,

`DepartmentId`,

`CourseID`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`,

`SubjectName`)

VALUES

(

'IT06',

4,

8,

1,

1,

current\_timestamp(),

'Structured Programming');

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK001',

1,

'Algorithm and DataStructures',

50,

1,

1,

current\_timestamp());

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK002',

2,

'Concepts of Health and Welfare',

50,

1,

1,

current\_timestamp());

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK003',

3,

'Digital Signal Processing',

50,

1,

1,

current\_timestamp());

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK004',

4,

'Microprocessors',

50,

1,

1,

current\_timestamp());

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK005',

1,

'ASP.Net - The Beginning',

1,

1,

2,

current\_timestamp());

INSERT INTO `msudatabase`.`tblbookdetails`

(

`BookCode`,

`DepartmentId`,

`BookName`,

`BookAvailability`,

`IsActive`,

`UpdatedUserID`,

`UpdatedDate`)

VALUES

(

'BK006',

1,

'ASP.Net - The Beginning-Part2',

50,

1,

2,

current\_timestamp());

Update tblBookDetails set MaximumBookAvailable=50 where BookID in (1,2,3,4,5,6);

select \* from tblbookdetails;

Select \* from tblstudentsXbooks

INSERT INTO `msudatabase`.`tblfacultydetails`

(

`FacultyFirstName`,

`FacultyLastName`,

`Qualification`,

`Designation`,

`FacultyCode`)

VALUES

(

'Keerthi',

'Reddy',

'PHD',

'Professor',

'FC001');

INSERT INTO `msudatabase`.`tblfacultydetails`

(

`FacultyFirstName`,

`FacultyLastName`,

`Qualification`,

`Designation`,

`FacultyCode`)

VALUES

(

'Geetha',

'Priya',

'PHD',

'Professor',

'FC002');

INSERT INTO `msudatabase`.`tblfacultydetails`

(

`FacultyFirstName`,

`FacultyLastName`,

`Qualification`,

`Designation`,

`FacultyCode`

)

VALUES

(

'Praveen',

'Kumar',

'MS',

'Asst Professor',

'FC003');

INSERT INTO `msudatabase`.`tblfacultydetails`

(

`FacultyFirstName`,

`FacultyLastName`,

`Qualification`,

`Designation`,

`FacultyCode`)

VALUES

(

'Suresh',

'Kumar',

'MS',

'Asst Professor',

'FC004');