CREATE TABLE IF NOT EXISTS Classes (

ClassID varchar(255),

PRIMARY KEY (ClassID),

ClassName varchar(255)

);

CREATE TABLE IF NOT EXISTS Teachers (

TeacherID varchar(255),

PRIMARY KEY (TeacherID),

TeacherName varchar(255)

);

CREATE TABLE IF NOT EXISTS Students (

StudentID varchar(255),

PRIMARY KEY (StudentID),

StudentName varchar(255)

);

CREATE TABLE IF NOT EXISTS Subjects (

SubjectID varchar(255),

PRIMARY KEY (SubjectID),

SubjectName varchar(255)

);

CREATE TABLE IF NOT EXISTS Teacher\_Subject (

TeacherID varchar(255),

SubjectID varchar(255),

PRIMARY KEY (TeacherID, SubjectID),

FOREIGN KEY(TeacherID) REFERENCES Teachers(TeacherID),

FOREIGN KEY(SubjectID) REFERENCES Subjects(SubjectID)

);

INSERT INTO Classes (ClassID, ClassName) VALUES ('1','First Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('2','Second Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('3','Third Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('4','Fouth Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('5','Fifth Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('6','Sixth Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('7','Seventh Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('8','Eighth Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('9','Ninth Std');

INSERT INTO Classes (ClassID, ClassName) VALUES ('10','Tenth Std');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('001','Teacher1');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('002','Teacher2');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('003','Teacher3');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('004','Teacher4');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('005','Teacher5');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('006','Teacher6');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('007','Teacher7');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('008','Teacher8');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('009','Teacher9');

INSERT INTO Teachers (TeacherID, TeacherName) VALUES ('010','Teacher10');

INSERT INTO Students (StudentID, StudentName) VALUES ('001','Student1');

INSERT INTO Students (StudentID, StudentName) VALUES ('002','Student2');

INSERT INTO Students (StudentID, StudentName) VALUES ('003','Student3');

INSERT INTO Students (StudentID, StudentName) VALUES ('004','Student4');

INSERT INTO Students (StudentID, StudentName) VALUES ('005','Student5');

INSERT INTO Students (StudentID, StudentName) VALUES ('006','Student6');

INSERT INTO Students (StudentID, StudentName) VALUES ('007','Student7');

INSERT INTO Students (StudentID, StudentName) VALUES ('008','Student8');

INSERT INTO Students (StudentID, StudentName) VALUES ('009','Student9');

INSERT INTO Students (StudentID, StudentName) VALUES ('010','Student10');

INSERT INTO Students (StudentID, StudentName) VALUES ('011','Student11');

INSERT INTO Students (StudentID, StudentName) VALUES ('012','Student12');

INSERT INTO Students (StudentID, StudentName) VALUES ('013','Student13');

INSERT INTO Students (StudentID, StudentName) VALUES ('014','Student14');

INSERT INTO Students (StudentID, StudentName) VALUES ('015','Student15');

INSERT INTO Students (StudentID, StudentName) VALUES ('016','Student16');

INSERT INTO Students (StudentID, StudentName) VALUES ('017','Student17');

INSERT INTO Students (StudentID, StudentName) VALUES ('018','Student18');

INSERT INTO Students (StudentID, StudentName) VALUES ('019','Student19');

INSERT INTO Students (StudentID, StudentName) VALUES ('020','Student20');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('001','Language1');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('002','Language2');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('003','Language3');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('004','Science');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('005','Maths');

INSERT INTO Subjects (SubjectID, SubjectName) VALUES ('006','Social Science');

CREATE TABLE IF NOT EXISTS Subject\_Class (

SubjectID varchar(255),

ClassID varchar(255),

PRIMARY KEY (SubjectID, ClassID),

FOREIGN KEY(SubjectID) REFERENCES Subjects(SubjectID),

FOREIGN KEY(ClassID) REFERENCES Classes(ClassID)

);

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('001','1');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('004','1');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('005','1');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('002','2');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('005','2');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('006','2');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('003','3');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('006','3');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('004','3');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('001','4');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('004','4');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('005','4');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('002','5');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('005','5');

INSERT INTO subject\_class (SubjectID, ClassID) VALUES ('006','5');

CREATE TABLE IF NOT EXISTS teacher\_subject\_class (

SubjectID varchar(255),

ClassID varchar(255),

TeacherID varchar(255),

PRIMARY KEY (SubjectID, ClassID, TeacherID),

FOREIGN KEY(SubjectID) REFERENCES Subjects(SubjectID),

FOREIGN KEY(ClassID) REFERENCES Classes(ClassID).

FOREIGN KEY(TeacherID) REFERENCES Classes(TeacherID)

);

INSERT INTO teacher\_subject\_class (SubjectID, ClassID, TeacherID) VALUES ('001','1','001');

INSERT INTO teacher\_subject\_class (SubjectID, ClassID, TeacherID) VALUES ('004','1','004');

INSERT INTO teacher\_subject\_class (SubjectID, ClassID, TeacherID) VALUES ('005','1','005');

SELECT StudentName, classes.ClassName FROM students INNER JOIN classes ON Students.ClassID=classes.ClassID WHERE classes.ClassID=1;

SELECT StudentName, classes.ClassName, subjects.SubjectName, subjects.SubjectID, teachers.TeacherName, teachers.TeacherID FROM students

INNER JOIN classes ON Students.ClassID=classes.ClassID

INNER JOIN teacher\_subject\_class ON Students.ClassID=teacher\_subject\_class.ClassID

RIGHT OUTER JOIN teachers on teacher\_subject\_class.TeacherID=teachers.TeacherID

RIGHT OUTER JOIN subjects on teacher\_subject\_class.SubjectID=subjects.SubjectID

WHERE classes.ClassID=1;

**To create User Table**

CREATE TABLE IF NOT EXISTS Users (

`employeename` varchar(45) DEFAULT NULL,

`username` varchar(45) DEFAULT NULL,

`password` varchar(45) DEFAULT NULL,

PRIMARY KEY (`username`)

)

SELECT employeename FROM users WHERE users.username='Admin' AND users.password='Admin@123'