

## Tables (18)

Name	Type	Schema
<b>Admins</b>		CREATE TABLE Admins ( AdminID INTEGER PRIMARY KEY AUTOINCREMENT, Username TEXT NOT NULL, Password TEXT NOT NULL )
AdminID	INTEGER	"AdminID" INTEGER
Username	TEXT	"Username" TEXT NOT NULL
Password	TEXT	"Password" TEXT NOT NULL
<b>ClassTimes</b>		CREATE TABLE ClassTimes ( ClassTimeID INTEGER PRIMARY KEY AUTOINCREMENT, OfferingID INTEGER, RoomID INTEGER, DayID INTEGER, SlotID INTEGER, ClassTypeID INTEGER, FOREIGN KEY (OfferingID) REFERENCES CourseOfferings(OfferingID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (RoomID) REFERENCES Rooms(RoomID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (DayID) REFERENCES Days(DayID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (SlotID) REFERENCES TimeSlots(SlotID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (ClassTypeID) REFERENCES ClassTypes(ClassTypeID) ON DELETE SET NULL ON UPDATE CASCADE )
ClassTimeID	INTEGER	"ClassTimeID" INTEGER
OfferingID	INTEGER	"OfferingID" INTEGER
RoomID	INTEGER	"RoomID" INTEGER
DayID	INTEGER	"DayID" INTEGER
SlotID	INTEGER	"SlotID" INTEGER
ClassTypeID	INTEGER	"ClassTypeID" INTEGER
<b>ClassTypes</b>		CREATE TABLE ClassTypes ( ClassTypeID INTEGER PRIMARY KEY AUTOINCREMENT, ClassName TEXT NOT NULL )
ClassTypeID	INTEGER	"ClassTypeID" INTEGER
ClassName	TEXT	"ClassName" TEXT NOT NULL
<b>CourseOfferings</b>		CREATE TABLE CourseOfferings ( OfferingID INTEGER PRIMARY KEY AUTOINCREMENT, CourseID INTEGER, TeacherID INTEGER, SectionID INTEGER, SemesterID INTEGER, FOREIGN KEY (CourseID) REFERENCES Courses(CourseID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (TeacherID) REFERENCES Teachers(TeacherID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (SectionID) REFERENCES Sections(SectionID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (SemesterID) REFERENCES Semesters(SemesterID) ON DELETE SET NULL ON UPDATE CASCADE )
OfferingID	INTEGER	"OfferingID" INTEGER
CourseID	INTEGER	"CourseID" INTEGER
TeacherID	INTEGER	"TeacherID" INTEGER
SectionID	INTEGER	"SectionID" INTEGER
SemesterID	INTEGER	"SemesterID" INTEGER
<b>Courses</b>		CREATE TABLE Courses ( CourseID INTEGER PRIMARY KEY AUTOINCREMENT, CourseCode TEXT NOT NULL, CourseName TEXT NOT NULL, CreditHours INTEGER, DepartmentID INTEGER, FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID) ON DELETE SET NULL ON UPDATE CASCADE )
CourseID	INTEGER	"CourseID" INTEGER
CourseCode	TEXT	"CourseCode" TEXT NOT NULL
CourseName	TEXT	"CourseName" TEXT NOT NULL
CreditHours	INTEGER	"CreditHours" INTEGER
DepartmentID	INTEGER	"DepartmentID" INTEGER
<b>Days</b>		CREATE TABLE Days ( DayID INTEGER PRIMARY KEY AUTOINCREMENT, DayName TEXT NOT NULL )

Name	Type	Schema
DayID	INTEGER	"DayID" INTEGER
DayName	TEXT	"DayName" TEXT NOT NULL
<b>DeletedStudents</b>		CREATE TABLE DeletedStudents ( DeletedID INTEGER PRIMARY KEY AUTOINCREMENT, StudentID INTEGER, RollNumber TEXT, StudentName TEXT, SectionID INTEGER, DeletedAt TIMESTAMP DEFAULT CURRENT_TIMESTAMP, DeletedByAdminID INTEGER, FOREIGN KEY (DeletedByAdminID) REFERENCES Admins(AdminID) ON DELETE SET NULL ON UPDATE CASCADE )
DeletedID	INTEGER	"DeletedID" INTEGER
StudentID	INTEGER	"StudentID" INTEGER
RollNumber	TEXT	"RollNumber" TEXT
StudentName	TEXT	"StudentName" TEXT
SectionID	INTEGER	"SectionID" INTEGER
DeletedAt	TIMESTAMP	"DeletedAt" TIMESTAMP DEFAULT CURRENT_TIMESTAMP
DeletedByAdminID	INTEGER	"DeletedByAdminID" INTEGER
<b>Departments</b>		CREATE TABLE "Departments" ( "DepartmentID" INTEGER, "DepartmentName" TEXT NOT NULL, PRIMARY KEY("DepartmentID" AUTOINCREMENT) )
DepartmentID	INTEGER	"DepartmentID" INTEGER
DepartmentName	TEXT	"DepartmentName" TEXT NOT NULL
<b>Rooms</b>		CREATE TABLE Rooms ( RoomID INTEGER PRIMARY KEY AUTOINCREMENT, RoomName TEXT NOT NULL, RoomType TEXT CHECK(RoomType IN ('Lecture', 'Lab')), Capacity INTEGER )
RoomID	INTEGER	"RoomID" INTEGER
RoomName	TEXT	"RoomName" TEXT NOT NULL
RoomType	TEXT	"RoomType" TEXT CHECK("RoomType" IN ('Lecture', 'Lab'))
Capacity	INTEGER	"Capacity" INTEGER
<b>Sections</b>		CREATE TABLE Sections ( SectionID INTEGER PRIMARY KEY AUTOINCREMENT, SectionName TEXT NOT NULL, DepartmentID INTEGER, FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID) ON DELETE SET NULL ON UPDATE CASCADE )
SectionID	INTEGER	"SectionID" INTEGER
SectionName	TEXT	"SectionName" TEXT NOT NULL
DepartmentID	INTEGER	"DepartmentID" INTEGER
<b>Semesters</b>		CREATE TABLE Semesters ( SemesterID INTEGER PRIMARY KEY AUTOINCREMENT, SemesterName TEXT NOT NULL, StartDate DATE, EndDate DATE )
SemesterID	INTEGER	"SemesterID" INTEGER
SemesterName	TEXT	"SemesterName" TEXT NOT NULL
StartDate	DATE	"StartDate" DATE
EndDate	DATE	"EndDate" DATE
<b>Students</b>		CREATE TABLE "Students" ( "StudentID" INTEGER, "RollNumber" TEXT NOT NULL UNIQUE, "StudentName" TEXT NOT NULL, "SectionID" INTEGER, PRIMARY KEY("StudentID" AUTOINCREMENT), FOREIGN KEY("SectionID") REFERENCES "Sections"("SectionID") ON DELETE SET NULL ON UPDATE CASCADE )
StudentID	INTEGER	"StudentID" INTEGER
RollNumber	TEXT	"RollNumber" TEXT NOT NULL UNIQUE
StudentName	TEXT	"StudentName" TEXT NOT NULL
SectionID	INTEGER	"SectionID" INTEGER
<b>TeacherOfficeAssignments</b>		CREATE TABLE TeacherOfficeAssignments ( TeacherID INTEGER, OfficeRoomID INTEGER, PRIMARY KEY (TeacherID, OfficeRoomID), FOREIGN KEY (TeacherID) REFERENCES

Name	Type	Schema
		Teachers(TeacherID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (OfficeRoomID) REFERENCES TeacherOfficeRooms(OfficeRoomID) ON DELETE CASCADE ON UPDATE CASCADE )
TeacherID	INTEGER	"TeacherID" INTEGER
OfficeRoomID	INTEGER	"OfficeRoomID" INTEGER
<b>TeacherOfficeRooms</b>		CREATE TABLE TeacherOfficeRooms ( OfficeRoomID INTEGER PRIMARY KEY AUTOINCREMENT, RoomName TEXT NOT NULL )
OfficeRoomID	INTEGER	"OfficeRoomID" INTEGER
RoomName	TEXT	"RoomName" TEXT NOT NULL
<b>Teachers</b>		CREATE TABLE Teachers ( TeacherID INTEGER PRIMARY KEY AUTOINCREMENT, TeacherName TEXT NOT NULL, Email TEXT, DepartmentID INTEGER, OfficeRoomID INTEGER, FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (OfficeRoomID) REFERENCES TeacherOfficeRooms(OfficeRoomID) ON DELETE SET NULL ON UPDATE CASCADE )
TeacherID	INTEGER	"TeacherID" INTEGER
TeacherName	TEXT	"TeacherName" TEXT NOT NULL
Email	TEXT	"Email" TEXT
DepartmentID	INTEGER	"DepartmentID" INTEGER
OfficeRoomID	INTEGER	"OfficeRoomID" INTEGER
<b>TimeSlots</b>		CREATE TABLE TimeSlots ( SlotID INTEGER PRIMARY KEY AUTOINCREMENT, StartTime TIME NOT NULL, EndTime TIME NOT NULL, SlotName TEXT )
SlotID	INTEGER	"SlotID" INTEGER
StartTime	TIME	"StartTime" TIME NOT NULL
EndTime	TIME	"EndTime" TIME NOT NULL
SlotName	TEXT	"SlotName" TEXT
<b>class_schedule</b>		CREATE TABLE class_schedule ( ScheduleID INTEGER PRIMARY KEY AUTOINCREMENT, student_id TEXT, course_id INTEGER, teacher_id INTEGER, room_id INTEGER, section_id INTEGER, day_id INTEGER, timeslot_id INTEGER, FOREIGN KEY (student_id) REFERENCES Students(RollNumber) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (course_id) REFERENCES Courses(CourseID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (teacher_id) REFERENCES Teachers(TeacherID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (room_id) REFERENCES Rooms(RoomID) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (section_id) REFERENCES Sections(SectionID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (day_id) REFERENCES Days(DayID) ON DELETE CASCADE ON UPDATE CASCADE, FOREIGN KEY (timeslot_id) REFERENCES TimeSlots(SlotID) ON DELETE CASCADE ON UPDATE CASCADE )
ScheduleID	INTEGER	"ScheduleID" INTEGER
student_id	TEXT	"student_id" TEXT
course_id	INTEGER	"course_id" INTEGER
teacher_id	INTEGER	"teacher_id" INTEGER
room_id	INTEGER	"room_id" INTEGER
section_id	INTEGER	"section_id" INTEGER
day_id	INTEGER	"day_id" INTEGER
timeslot_id	INTEGER	"timeslot_id" INTEGER
<b>sqlite_sequence</b>		CREATE TABLE sqlite_sequence(name,seq)
name		"name"

Name	Type	Schema
seq		"seq"

## Indices (0)

Name	Type	Schema
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## Views (0)

Name	Type	Schema
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## Triggers (1)

Name	Type	Schema
<b>delete_student</b>		CREATE TRIGGER delete_student BEFORE DELETE ON Students BEGIN INSERT INTO DeletedStudents (StudentID, RollNumber, StudentName, SectionID, DeletedByAdminID) VALUES (OLD.StudentID, OLD.RollNumber, OLD.StudentName, OLD.SectionID, 1); END