Légende :

x : relation

<u>x</u> : clef primaire

x# : clef étrangère

class (<u>idClass</u>, ClassName)

user (<u>idUser</u>, FirstName, LastName, Email, Password, class_id#, role)

subject (<u>idSubject</u>, SubName)

schedule (<u>idSchedule</u>, subject_id#, class_id#, teacher_id#, start_datetime, end_datetime)

attendance (<u>idAttendance</u>, schedule_id#, student_id#, marked_attendance, signed_attendance)

```
CREATE TABLE `class` (
 `idClasse` int(11) NOT NULL PRIMARY KEY,
 `ClassName` varchar(45) DEFAULT NULL
);
```

```
CREATE TABLE `course` (
 `idCourse` int(11) NOT NULL PRIMARY KEY,
 `SubjectID` int(11) DEFAULT NULL,
 `ClassID` int(11) DEFAULT NULL,
 `TeacherID` int(11) DEFAULT NULL,
 `StartDateTime` datetime DEFAULT NULL,
```

```sql
  `EndDateTime` datetime DEFAULT NULL,
  FOREIGN KEY (`SubjectID`) REFERENCES `subject` (`idSubject`)ON DELETE CASCADE,
  FOREIGN KEY (`ClassID`) REFERENCES `class` (`idClasse`)ON DELETE CASCADE,
  FOREIGN KEY (`TeacherID`) REFERENCES `user` (`idUser`)ON DELETE CASCADE
);


CREATE TABLE `course_attendance` (
  `idCourseAttendance` int(11) NOT NULL PRIMARY KEY,
  `course_id` int(11) NOT NULL,
  `student_id` int(11) NOT NULL,
  `can_sign` tinyint(1) DEFAULT 0,
  `signature_path` varchar(255) DEFAULT NULL,
  `signed_at` datetime DEFAULT NULL,
  `created_at` timestamp NOT NULL DEFAULT current_timestamp(),
  FOREIGN KEY (`course_id`) REFERENCES `course` (`idCourse`)ON DELETE CASCADE,
  FOREIGN KEY (`student_id`) REFERENCES `user` (`idUser`)ON DELETE CASCADE
);



CREATE TABLE `subject` (
  `idSubject` int(11) NOT NULL PRIMARY KEY,
  `SubName` varchar(45) DEFAULT NULL
);


CREATE TABLE `user` (
  `idUser` int(11) NOT NULL PRIMARY KEY,
  `LastName` varchar(45) DEFAULT NULL,
  `FirstName` varchar(45) DEFAULT NULL,
  `Email` varchar(45) DEFAULT NULL,
  `Status` varchar(45) DEFAULT 'Student',
  `Password` varchar(255) NOT NULL
```

```
);

CREATE TABLE `user_has_class` (
 `User_idUser` int(11) NOT NULL,
 `Class_idClasse` int(11) NOT NULL,
 PRIMARY KEY (`User_idUser`, `Class_idClasse`),
 FOREIGN KEY (`User_idUser`) REFERENCES `user` (`idUser`)ON DELETE CASCADE,
 FOREIGN KEY (`Class_idClasse`) REFERENCES `class` (`idClasse`)ON DELETE CASCADE
);
```