

Relational Schema - CampusFlow

Student:

```
Student(StudentID, FirstName, LastName, Major, Email, EnrolmentYear, DepartmentID, PRIMARY KEY(StudentID), FOREIGN KEY(DepartmentID) REFERENCES Department(DepartmentID))
```

Course:

```
Course(CourseID, CourseName, Credits, Description, DepartmentID, PRIMARY KEY(CourseID), FOREIGN KEY(DepartmentID) REFERENCES Department(DepartmentID))
```

Section:

```
Section(SectionID, Semester, Year, CourseID, PRIMARY KEY(SectionID), FOREIGN KEY(CourseID) REFERENCES Course(CourseID))
```

Instructor:

```
Instructor(InstructorID, Email, FirstName, LastName, Salary, DepartmentID, PRIMARY KEY(InstructorID), FOREIGN KEY(DepartmentID) REFERENCES Department(DepartmentID))
```

Department:

```
Department(DepartmentID, DepartmentName, OfficeLocation, PRIMARY KEY(DepartmentID))
```

Classroom:

```
Classroom(ClassroomID, Building, Capacity, PRIMARY KEY(ClassroomID))
```

TimeSlot:

```
TimeSlot(TimeSlotID, Start, End, Day, PRIMARY KEY(TimeSlotID))
```

Takes:

```
Takes(StudentID, SectionID, PRIMARY KEY(StudentID, SectionID), FOREIGN KEY(StudentID) REFERENCES Student(StudentID), FOREIGN KEY(SectionID) REFERENCES Section(SectionID))
```

Teaches:

```
Teaches(InstructorID, SectionID, PRIMARY KEY(InstructorID, SectionID), FOREIGN KEY(InstructorID) REFERENCES Instructor(InstructorID), FOREIGN KEY(SectionID) REFERENCES Section(SectionID))
```

SectionClass:

```
SectionClass(SectionID, ClassroomID, PRIMARY KEY(SectionID, ClassroomID), FOREIGN KEY(SectionID) REFERENCES Section(SectionID), FOREIGN KEY(ClassroomID) REFERENCES Classroom(ClassroomID))
```

SectionTimeslot:

```
SectionTimeslot(SectionID, TimeSlotID, PRIMARY KEY(SectionID, TimeSlotID), FOREIGN KEY(SectionID) REFERENCES Section(SectionID), FOREIGN KEY(TimeSlotID) REFERENCES TimeSlot(TimeSlotID))
```

Prerequisite:

```
Prerequisite(CourseID, PrerequisiteID, PRIMARY KEY(CourseID, PrerequisiteID), FOREIGN KEY(CourseID) REFERENCES Course(CourseID), FOREIGN KEY(PrerequisiteID) REFERENCES Course(CourseID))
```