



Relationships

An **INSTRUCTOR** teaches one or more **COURSE**, each **COURSE** is taught by one and only one **INSTRUCTOR**.

A **COURSE** is added to one or more **SCHEDULE**, each **SCHEDULE** can add one and only one **COURSE**.

A **STUDENT** is added to zero or more courses to **SCHEDULE**, each **SCHEDULE** can add one and only one **STUDENT**

A **STUDENT** can fill one and only one **SEAT**, each **SEAT** can be filled by one and only one **STUDENT**

A **COURSE** can apply one or more sections to **COURSE_LIST**, each **COURSE_LIST** can apply one **COURSE**

A **SECTION** can be applied to one or more **COURSE_LIST**, each **COURSE_LIST** applies one and only one **SECTION**

A **PROFESSOR** can teach zero or more **SECTIONS**, each **SECTION** can be taught by one and only one **PROFESSOR**

A few assumptions...

Can a **PROFESSOR** exist in the database without being assigned a **SECTION**? YES

Does an **INSTRUCTOR** have to be assigned an **COURSE** when created? YES

Does a **SCHEDULE** need to display specific section? NO