



Relationships

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

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

A **STUDENT** is added to one or more **COURSE_LIST**, each **COURSE_LIST** 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** has one or more **SECTIONS**, each **SECTION** has one and only one **COURSE**

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

A **SECTION** can generate one or more **SEATS**, each **SEAT** is generated by one and only one **SECTION**

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