

HW 1 - Normalization

Tabular Form:

UNNORMALIZED

CourseNo
Course Name
InstructorNo
Instructor Name
StudentNo
Student Name
DOB
Gender
Grade
ProgramNo
Program Name

1st NF

Instructor
InstructorNo (PK)
Instructor Name
CourseNo
Course Name
Student
StudentNo (PK)
Student Name
DOB
Gender
Grade
ProgramNo
Program Name

2nd NF

Instructor
InstructorNo (PK)
Instructor Name
Course Grade
CourseNo (FK) StudentNo (FK) —> (PK)
Grade
Student
StudentNo (PK)
Student Name
DOB
Gender
ProgramNo
Program Name
Course
CourseNo (PK)
Course Name
InstructorNo

3rd NF

Instructor
InstructorNo (PK)
Instructor Name
Course Grade
CourseNo (FK) StudentNo (FK) —> (PK)
Grade
Student
StudentNo (PK)
Student Name
DOB
Gender
ProgramNo
Course
CourseNo (PK)
Course Name
InstructorNo
Program
ProgramNo (PK)
Program Name