

Functional Dependencies
CPS 510 - Assignment 6

Table 1: First_user

$\text{userID} \rightarrow \text{userType}, \text{firstName}, \text{lastName}$

Table 2: Course

$\text{courseID} \rightarrow \text{courseName}, \text{taPermissionCourse}, \text{professorPermissionCourse}$

Table 3: Student

$\text{userID} \rightarrow \text{studentID}$

Table 4: Professor

$\text{userID} \rightarrow \text{professorID}$

Table 5: TA

$\text{userID} \rightarrow \text{taID}$

Table 6: Permission

$\text{courseID} \rightarrow \text{taPermissionID}, \text{profPermissionID}, \text{taID}, \text{professorID}$

Table 7: Prerequisite

$\text{prerequisiteID} \rightarrow \text{courseID}, \text{payment}$

Table 8: Section

$\text{sectionID} \rightarrow \text{classList}, \text{taID}, \text{courseID}$

Table 9: Lecture_Material

$\text{lectureID} \rightarrow \text{lectureContents}$

Table 10: Course_List

$\text{courseID} \rightarrow \text{professorID}$

Table 11: Tests

$\text{testID} \rightarrow \text{testWeight}, \text{testEvaluationStatus}, \text{sectionID}, \text{studentID}, \text{courseID}, \text{studentID}$

Table 12: Assignments

$\text{assignmentID} \rightarrow \text{assignmentWeight}, \text{assignmentEvaluationStatus}, \text{sectionID}, \text{studentID}, \text{courseID}$

Table 13: Grades

- No FD since no primary key

Table 14: Discussion_Board

assignmentID → discussionContent, sectionID, courseID

Table 15: Course_Offerings

courseID → professorID, taID, availability, levelOfCourse, subject, program

Table 16: Enrolled

studentID → courseID

Table 17: Checks

courseID → prerequisiteID

Table 18: Creates

courseID → professorID