

COMP 3311: Database Management Systems

Final Year Project (FYP) Management System

Task 2: Relation Schemas

The following relation schemas must be used for Task 2. The primary key of each relation schema is underlined and shown in red color. A foreign key is shown in italic font *and* also in bright blue color if not part of a primary key.

IMPORTANT: *Your Oracle database must use exactly the same relation and attribute names as those given below.*

CSEStudent(username char(15), name varchar2(30), *groupId* smallint)

Faculty(username char(15), name varchar2(30), roomNo char(5), facultyCode char(2))

FYP(fypld smallint, title varchar2(100), description varchar2(1200), *category* varchar2(30), type char(7), otherRequirements varchar2(200), minStudents smallint, maxStudents smallint, isAvailable char(1))

FYPCategory(category, varchar2(30))

InterestedIn(*fypld* smallint, *groupId* smallint, priority smallint)

ProjectGroup(groupId smallint, groupCode char(5), *assignedFYP* smallint, *reader* char(15))

RequirementGrades(*facultyUsername* char(15), *studentUsername* char(15), proposalReport number(4,1), progressReport number(4,1), finalReport number(4,1), presentation number(4,1))

Supervises(username char(15), *fypld* smallint)

Constraints

In addition to any constraints that either are described in the problem description, are derivable from the example E-R schema for Task 1 or can be inferred from common sense and/or real-world knowledge, the Task 2 relation schemas also should constrain the values of the attributes listed below to only the indicated values. Only constraints that can be expressed on a single table should be specified.

<u>Attribute</u>	<u>Allowed and default values</u>
facultyCode	2 uppercase letters
groupCode	2 or 4 uppercase letters plus 1 digit whose value is between 1 and 4 (e.g., AA1, AAB1)
isAvailable	Y, N (the default value is Y)
minStudents	between 1 and maxStudents (the default value is 1)
maxStudents	between minStudents and 4 (the default value is 1)
roomNo	4 digits optionally followed by an uppercase letter (e.g., 3558, 2331A)
username	between 3 and 15 lowercase letters