

Тема 21

Домашно 4 – База от данни за университет

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1. Релационен модел на данни (релационни схеми)

Схемата на базата от данни се състои от следните релационни схеми:

Students(name, EGN, facultyNumber, major, yearOfStudying, facultyID, mentor)

Courses(name, courseNumber, year, type, description, teacherEGN)

Faculties(facultyName, facultyID, address)

Departments(name, facultyID, teacherEGN)

Teacher (name, teacherEGN, scientificTitle, departmentName)

Degrees (abbreviation, degreeName)

Attends(studentEGN, courseNumber, courseYear)

HasDegree(teacherEGN, abbreviation)

2. ФЗ и Нормализация

За схемата на БД по-горе са в сила следните ФЗ:

ФЗ-1 EGN -> name, facultyNumber, major, yearOfStudying, facultyID, mentor (Students)

ФЗ-2 courseNumber, year -> name, type, description, teacherEGN (Course)

ФЗ-3 facultyID -> facultyName, address (Faculties)

ФЗ-4 name, facultyID -> teacherEGN (Departments)

ФЗ-5 teacherEGN -> name, scientificTitle, departmentName (Teachers)

ФЗ-6 abbreviation -> degreeName (Degrees)