Лабораторная работа 2. Моделирование данных

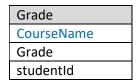
1) Exercise 1.

а. Task 1: Определить сущности

Student, Tutor, Course, Place, Presentation

b. Task 2: Добавить подходящие атрибуты

Student	Teacher	Course
studentId	teacherId	courseName
studentName	teacherName	courseCost
studentAdress		courseStartDate
		courseFinishDate



Первичный ключ выделен синим цветом

2) Exercise 2: Выявить взаимоотношения

а. Task 1: Создать список именованных связей

Student-Grade

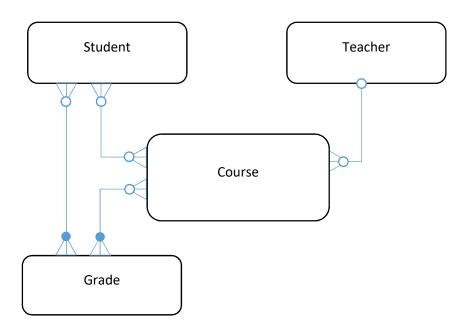
Student-Course

Teacher-Course

Course-Grade

b. Task 2: Построить E-R диаграмму

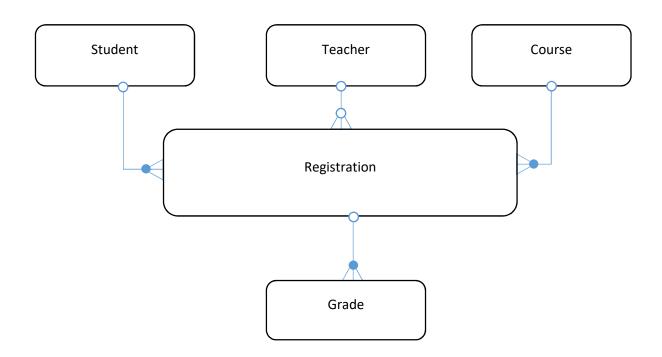
E-R Diagram (Initial)



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с. Task 3: Перестроить отношения многие-ко-многим

E-R Diagram (Updated)



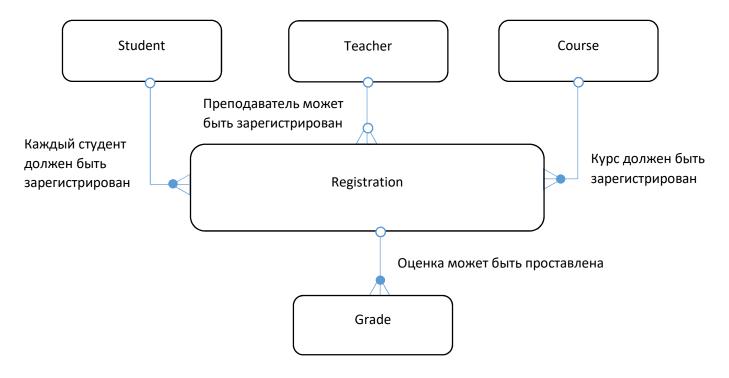
Student	Teacher	Course	Grade
studentId	teacherId	courseName	courseName
studentFirstName	teacherFirstName	courseCost	studentId
studentSecondName	teacherSecondName	courseStartDate	registrationId
studentAdress		courseFinishDate	grade
	Registration		
	studentId		
	courseName		
	registrationId		
	teacherId		

Первичные ключи выделены синим цветом

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Exercise 3: Закончить модель

E-R Diagram (Final)



Student	
studentId	
studentFirstName	
studentSecondName	
studentAdress	

Teacher	
teacherId	
teacherFirstName	
teacherSecondName	

Course	
courseName	
courseCost	
courseStartDate	
courseFinishDate	

Grade
courseName
studentId
registrationId
grade

Registration	
studentId	
courseName	
registrationId	
teacherId	

Переменная	Диапазон
studentId	0999
studentFirstName	string
studentSecondName	string
studentAdress	string
teacherId	099
teacherFirstName	string
teacherSecondName	string
courseName	string
courseCost	099999
courseStartDate	01/01/2000
courseFinishDate	12/12/2050
registrationId	0999

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