

Marmara University  
Faculty of Engineering  
Department of Computer Engineering

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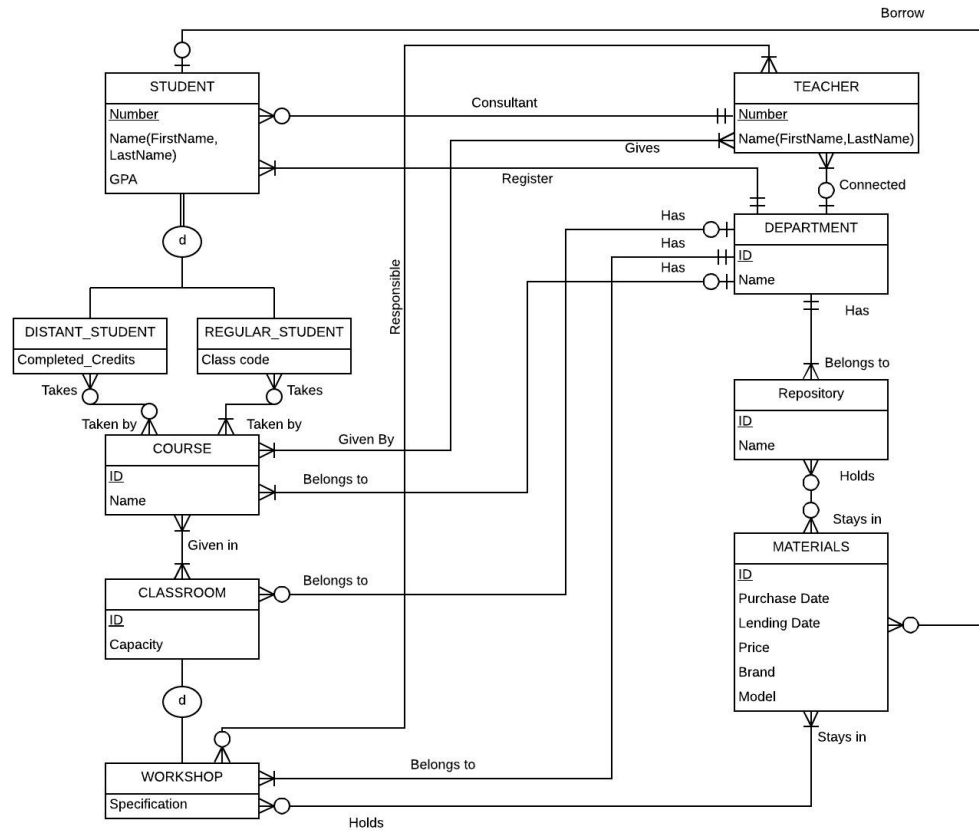
CSE3055 Database Systems (Fall 2017)

Project - Step 2 :  
Requirement Analysis & Conceptual  
Database Design

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- Students are identified by a Number, and their names, surnames, GPAs must be recorded. Students must be a normal education or distance education student.
- Distant students' completed credits and normal education students' class codes(i.e. 10F, 11C) must be recorded.
- Each course has an ID as an identifier and a name. Each classroom has an identifier ID and a capacity.
- A class room can be a workshop. Each workshop has a specification (i.e. Electrical workshop, Metal workshop)
- Each teach has a number as an identifier and a name composed of first name and a surname.
- Each department has a department code as an identifier and a name.
- Each repository has an ID as an identifier and a name.
- Registered materials of the school have the attributes ID as an identifier, purchase date, lending date, price and model.
- Each student has a consultant teacher, registered to a department and can borrow one or more materials.
- Each distant student may take one or more courses but each regular student should take at least one course in a semester.
- Each course may have one or more students. Also they are given in at least one classroom.
- A classroom may belong to a department. But a workshop must belong to only one department.
- A workshop is managed by at least one teacher. Also it holds materials.
- A teacher can be responsible for a workshop. They can consult one or more students. They give at least one course and may be connected to a department.
- A department should have at least one teacher. It may have one or more classrooms and should have at least one course , a workshop and a repository.
- A repository may have materials and materials can stay in a repository or a workshop.



## STUDENT

Number	Name	Surname	GPA
14402	ALİ	YILDIRIM	40
14403	YUNUS EMRE	ÖZİL	19.6
14404	BARIŞ	AĞRAŞ	49
14406	EMRE	ERSOY	52.2
14407	KORAY	KAYABAŞ	55.4

## COURSE

ID	Name
121	MECHANIC DESIGN
104	SOFTWARE
203	INSTALLATION
216	WELDING
312	PURIFICATION

## CLASSROOM

ID	Capacity
244	30
213	24
356	21
374	20
496	24

## TEACHER

Number	Name	Surname
112	ERTAN	TAŞÇI
106	DURAK	ACER
121	MEHMET ALİ	USLU
109	BURAK	KÖK
118	ALİCAN	ÇEVİK

## COURSE

ID	Name
110	TEXTILE TECHNOLOGY
121	CLOTHING PRODUCTION
163	CHILD DEVELOPMENT
152	ART DESIGN
141	FOOD AND BEVERAGE SERVICES

## REPOSITORY

ID	CAPACITY
101	240 PIECES
102	112 PIECES
103	95 PIECES
104	96 PIECES
105	210 PIECES

## MATERIAL

ID	Purchase Date	Lending Date	Price
110124	15-10-17	-	210 TL
110126	05-03-14	15-03-14	1540 TL
125132	15-10-17	-	3600 TL
125101	05-03-14	03-06-16	150 TL
136006	12-09-12	13-05-15	15 TL