Cairo University SEM – team 14

Faculty of Engineering

Computer Engineering Department

CMP 202

Introduction to database systems

Schema report

Team number: 14

Team members:

- Aisha Mousa 1 32
- Hady Maher 2 28
- Ibrahim Mahmoud 1 1
- Reem Ashraf 1 24

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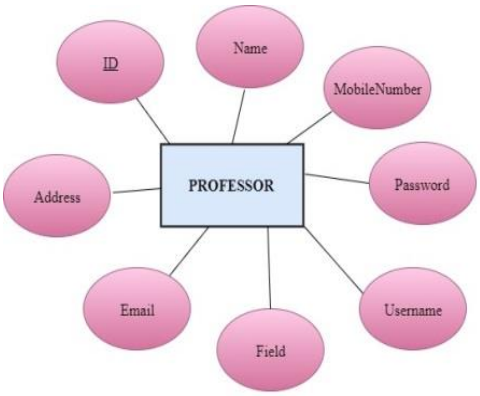
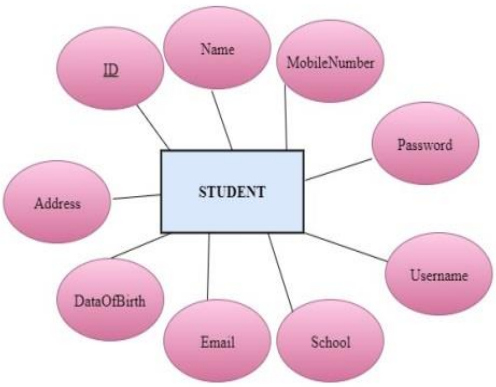
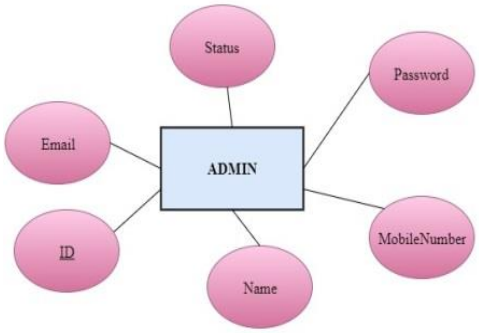
9/11/2017

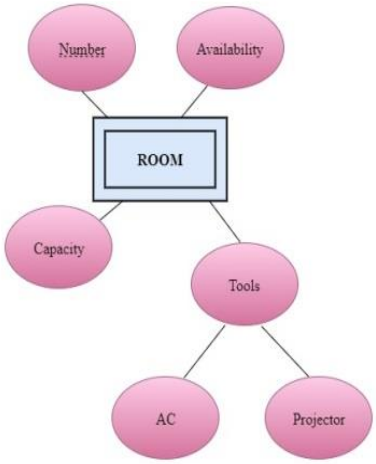
Coursenta Website

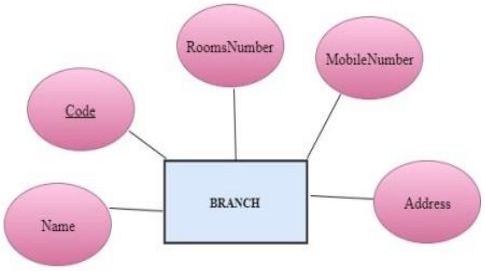
ER diagram:

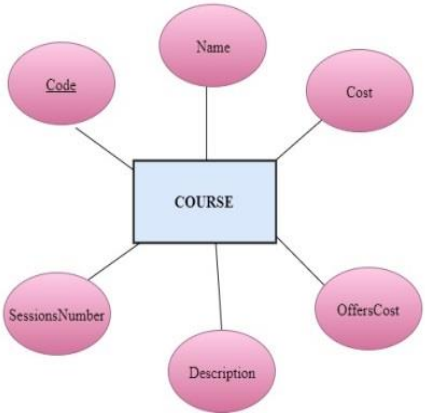


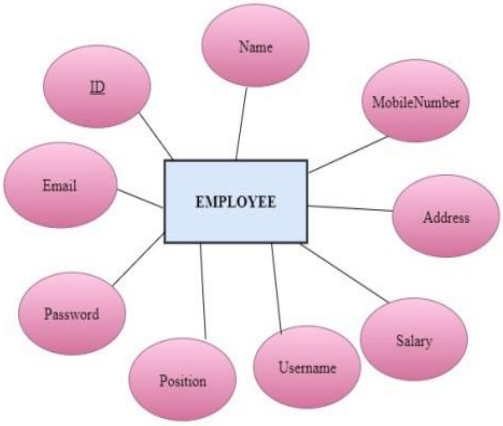


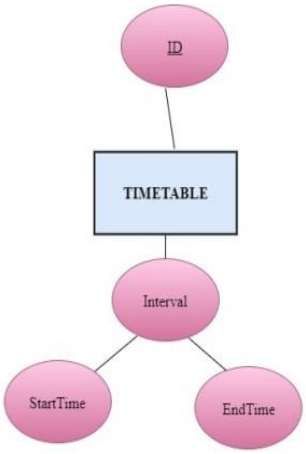


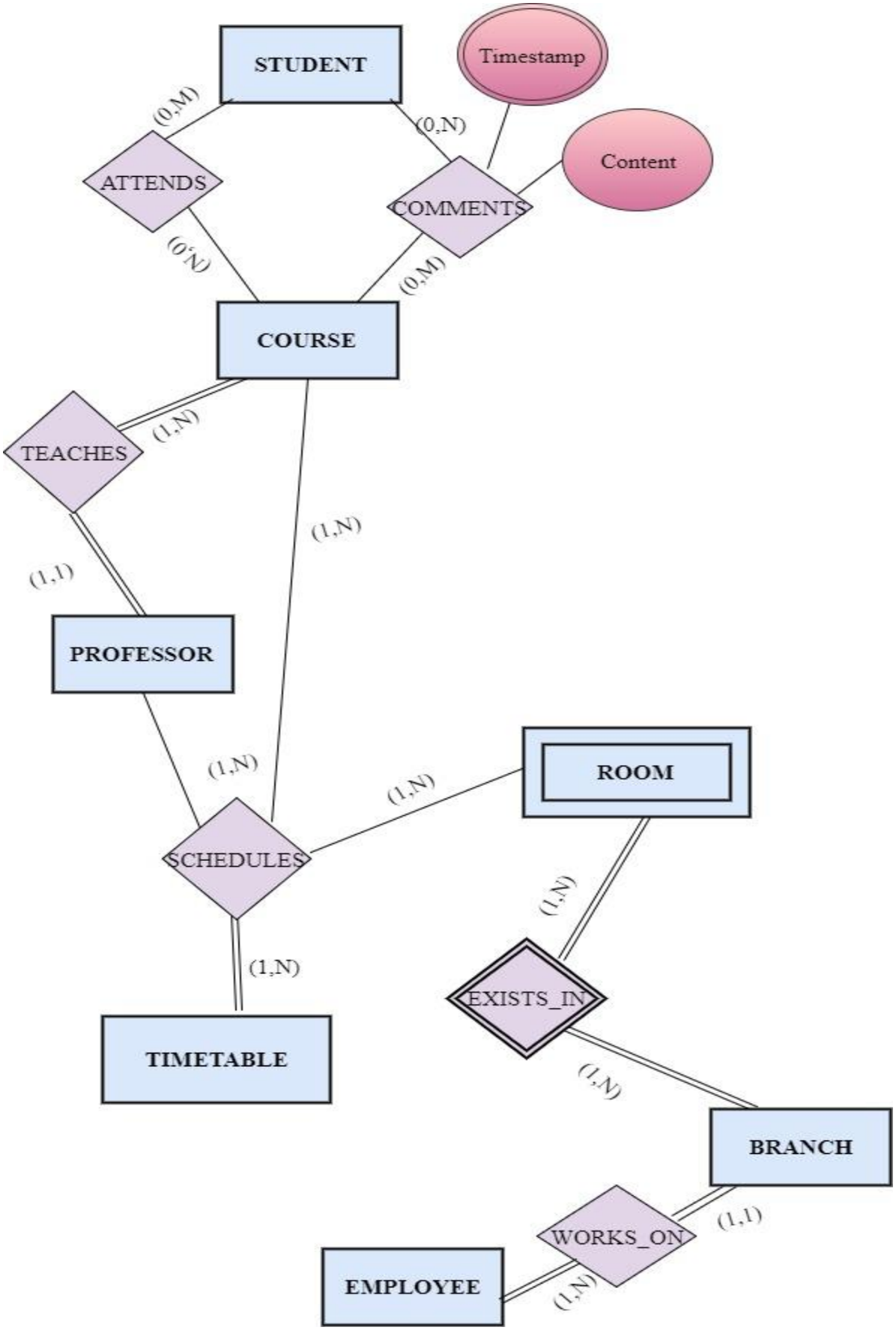








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Timestamp
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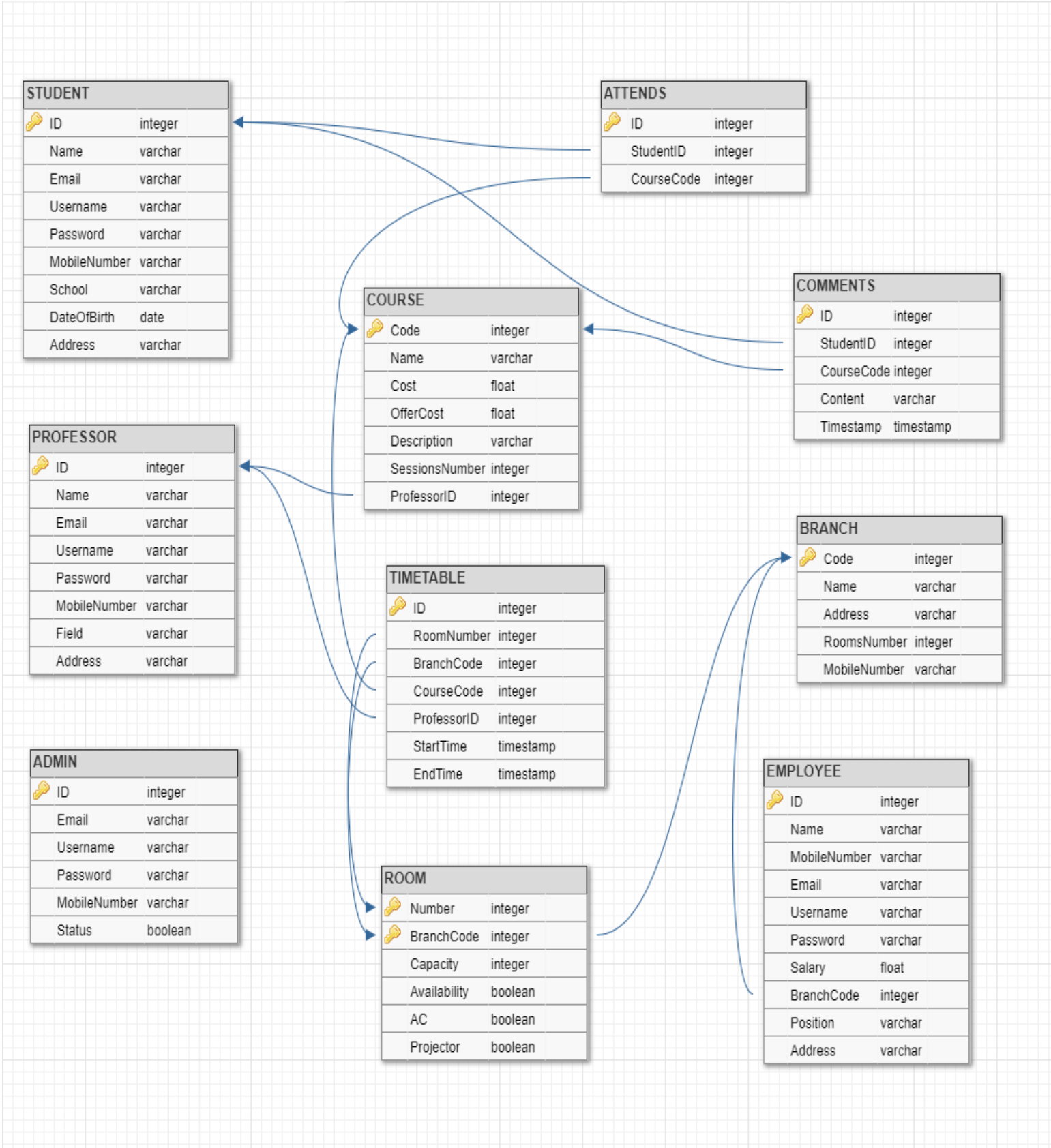
(0,N)
ATTENDS
COMMENTS
Content
(0,N)
(0,M)
COURSE
TEACHES
(1,N)
(1,1)
(1,N)
PROFESSOR
(1,N)
(1,N)
ROOM
SCHEDULES
(1,N)
(1,N)
EXISTS_IN
TIMETABLE
(1,N)
BRANCH
WORKS_ON
(1,1)
EMPLOYEE
(1,N)

Schema:


STUDENT
ID integer
Name varchar
Email varchar
Username varchar
Password varchar
MobileNumber varchar
School varchar
DateOfBirth date
Address varchar
ATTENDS
ID integer
StudentID integer
CourseCode integer
COMMENTS
ID integer
StudentID integer
CourseCode integer
Content varchar
Timestamp timestamp
COURSE
Code integer
Name varchar
Cost float
OfferCost float
Description varchar
SessionsNumber integer
ProfessorID integer
PROFESSOR
ID integer
Name varchar
Email varchar
Username varchar
Password varchar
MobileNumber varchar
Field varchar
Address varchar
BRANCH
Code integer
Name varchar
Address varchar
RoomsNumber integer
MobileNumber varchar
TIMETABLE
ID integer
RoomNumber integer
BranchCode integer
CourseCode integer
ProfessorID integer
StartTime timestamp
EndTime timestamp
ADMIN
ID integer
Email varchar
Username varchar
Password varchar
MobileNumber varchar
Status boolean
ROOM
Number integer
BranchCode integer
Capacity integer
Availability boolean
AC boolean
Projector boolean
EMPLOYEE
ID integer
Name varchar
MobileNumber varchar
Email varchar
Username varchar
Password varchar
Salary float
BranchCode integer
Position varchar
Address varchar

Constrains:

	ENTITY INTEGRITY		REFERENTIAL INTEGRITY	DOMAIN INTRGRITY		
	Primary	**Unique**	**Foreign**	**Not NULL**	**Default**	**Check**
	STUDENT					
ID	✓					
Name				✓		
MobileNumber						
Password				✓		
Username		✓		✓		
School						
Email		✓		✓		
DateOfBirth						
Address						
	PROFESSOR					
ID	✓					
Name				✓		
MobileNumber						
Password				✓		
Username		✓		✓		
Field				✓		
Email		✓		✓		
Address						
	ADMIN					
ID	✓					
Username		✓		✓		
MobileNumber						
Password				✓		

Status				✓	**true**	
Email		✓		✓		
	COURSE					
Code	✓					
Name		✓		✓		
Cost				✓		
OfferCost						**<= Cost**
Description				✓		
SessionsNumber				✓		
ProfessorID			✓			
	EMPLOYEE					
ID	✓					
Name				✓		
MobileNumber						
Address						
Salary				✓		
Username		✓				
Position				✓		
Password				✓		
Email		✓				
BranchCode			✓			
	TIMETABLE					
ID	✓					
StartTime				✓		
EndTime				✓		**> StartTime**
RoomNumber			✓			
BranchCode			✓			
CourseName			✓			
CourseCode			✓			
ProfessorId			✓			

	ROOM					
Number	✓					
BranchCode	✓		✓			
Availability					**true**	
Capacity				✓		
AC					**true**	
Projector					**true**	
	BRANCH					
BranchCode	✓					
Name				✓		
Address				✓		
RoomsNum				✓		
MobileNum				✓		
	COMMENTS					
ID	✓					
Timestamp				✓		
Content				✓		
StudentID			✓			
CourseName			✓			
CourseCode			✓			
	ATTENDS					
ID	✓					
StudentID			✓			
CourseName			✓			
CourseCode			✓			