

# HOMEWORK 1

## Homework 1

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CMIS 320

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## HOMEWORK 1

### Instructions

Consider a student club or organization in which you are a member. What are the data entities of this enterprise? List and define each entity. Then, develop an enterprise data model showing these entities and important relationships between them.

### Summary

I chose this CMIS 320 online class room as a student organization which I belong to. I defined and listed entities and attributes of the class room and drew an entity-relationship diagram.

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### Entities and Attributes

In this class room, there are twelve entities in which have several attributes as below.

Since I assume that this system adopts a relational database, I applied each attribute to Oracle's data type.

Entities	Attributes	Data Types	Remarks
Assignments	id	NUMBER	
	description	VARCHER2	
	due_date	DATE	
	file_id	NUMBER	
Discussions	id	NUMBER	
	topic	CHAR	
	description	VARCHER2	
	category	NUMBER	0: lounge_and_cafe, 1: week1, 2: week2, etc.
Files	id	NUMBER	
	created_at	DATE	
	user_id	NUMBER	
	types	CHAR	0: assignement, 1: submission, 2: thread, 3: thread_comment
	content	BLOB	attachment file
News	id	NUMBER	
	created_at	DATE	
	updated_at	DATE	
	title	CHAR	
	description	VARCHER2	
Submissions	id	NUMBER	
	created_at	DATE	
	user_id	NUMBER	
	assignment_id	NUMBER	
	comment	VARCHER2	
	feedback	VARCHER2	
	score	NUMBER	
	file_id	NUMBER	
Threads	id	NUMBER	
	created_at	DATE	
	updated_at	DATE	
	user_id	NUMBER	

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	discussion_id	NUMBER	
	description	VARCHAR2	
Thread Comments	id	NUMBER	
	created_at	DATE	
	updated_at	DATE	
	user_id	NUMBER	
	thread_id	NUMBER	
	description	VARCHAR2	
Thread Read Statuses	id	NUMBER	
	created_at	DATE	
	updated_at	DATE	
	user_id	NUMBER	
	thread_id	NUMBER	
	status	Boolean	
Users	id	NUMBER	
	name	CHAR	
	description	VARCHAR2	
	role	NUMBER	0: instructor, 1: student
	picture	BLOB	
	phone	CHAR	
	city	CHAR	
	state	CHAR	
	country	CHAR	
	work_experience	VARCHAR2	
	major	CHAR	
	education	CHAR	
tagline	VARCHAR2		
Weekly Checklists	id	NUMBER	
	description	VARCHAR2	
	week_number	NUMBER	1: week1, 2: week2, 3: week3, etc.
Weekly Readings	id	NUMBER	
	title	CHAR	
	week_number	NUMBER	1: week1, 2: week2, 3: week3, etc.
	link	VARCHAR2	
Weekly Topics	id	NUMBER	
	title	CHAR	
	description	VARCHAR2	
	week_number	NUMBER	1: week1, 2: week2, 3: week3, etc.

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## Entity-Relationship Diagram

I drew an entity-relationship diagram with multiplicity as below. On the principle of designing a relational database, I designed to make each relation a one-to-many connection.

