

1a)

Initial phase -- characterize fully the data needs of the prospective database users.

Second phase -- choosing a data model

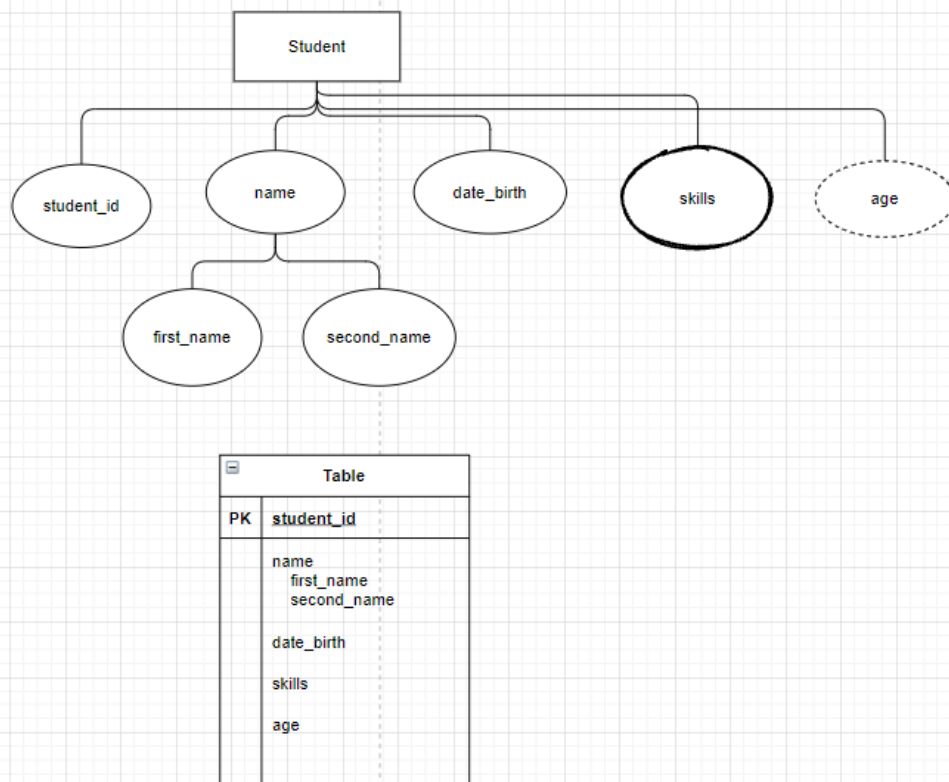
Final Phase -- Moving from an abstract data model to the implementation of the database

1b)

Entities are basically people, places, or things you want to keep information about. For example, a library system may have the *book*, *library* and *borrower* entities

Entities are related in certain ways. For example, a borrower may belong to a library and can take out books. A book can be found in a particular library

2)a)2



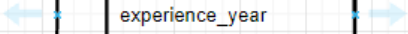
2b)

University	
PK	ID
	name
	courses
	date_open

Course	
PK	ID
	name
	credits
	dept_name

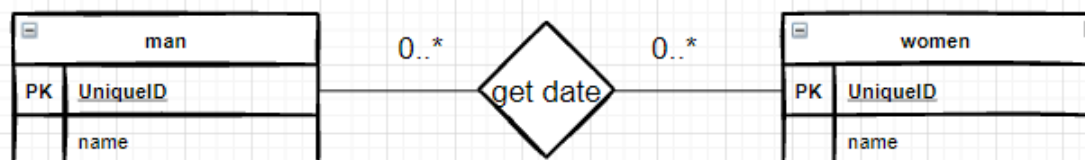
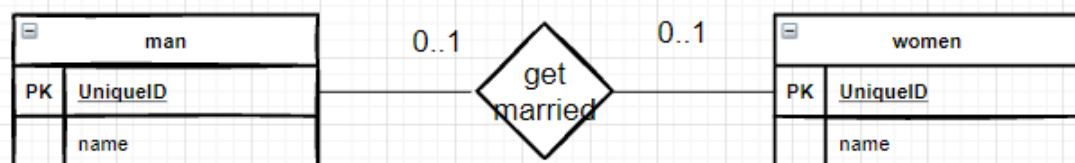
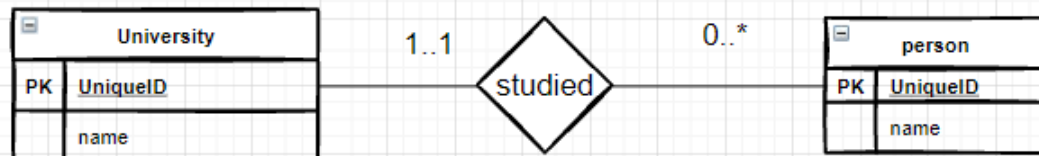
Dormitory	
PK	ID
	name
	location
	date_built

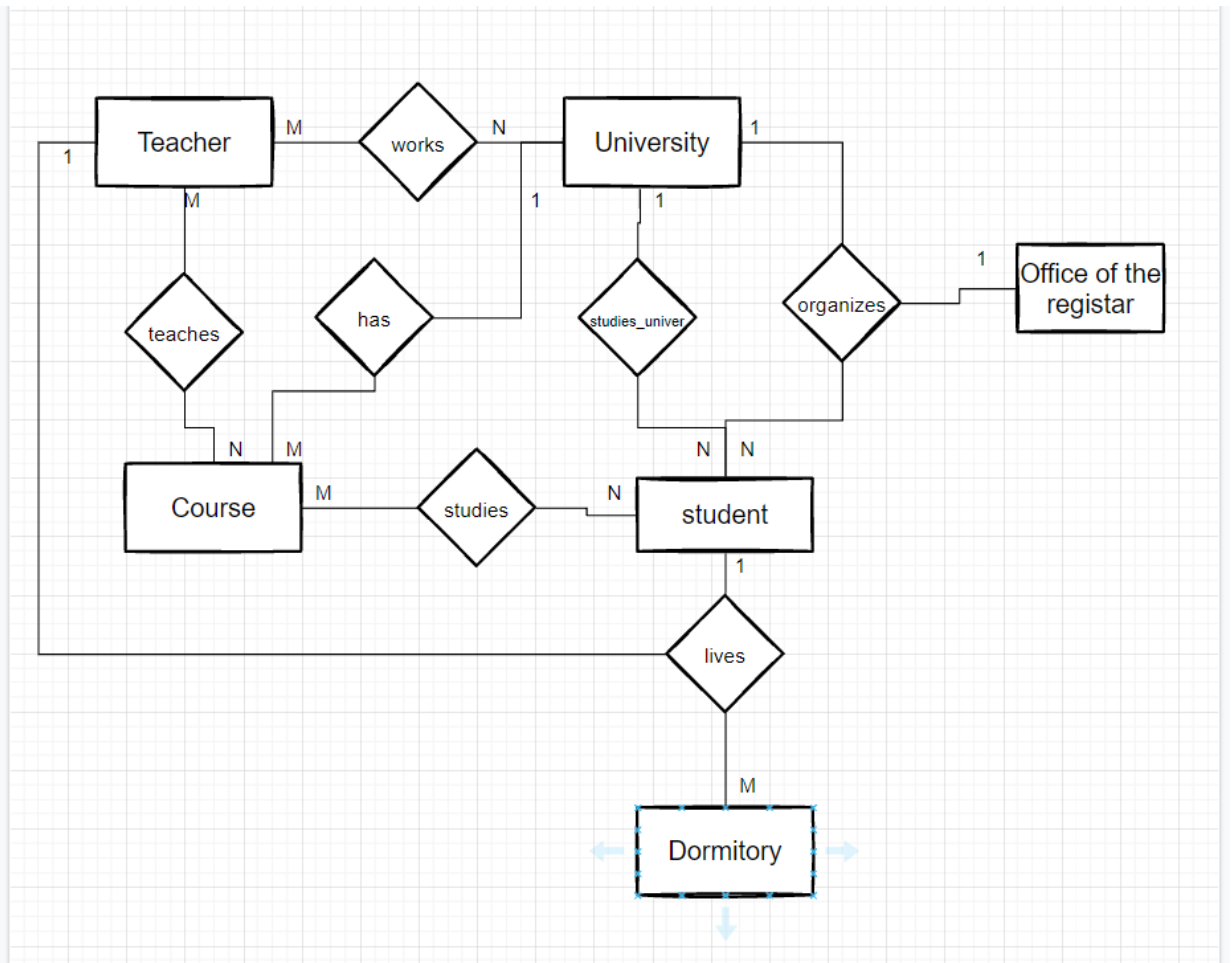
teacher	
PK	ID
	name
	city
	experience_year

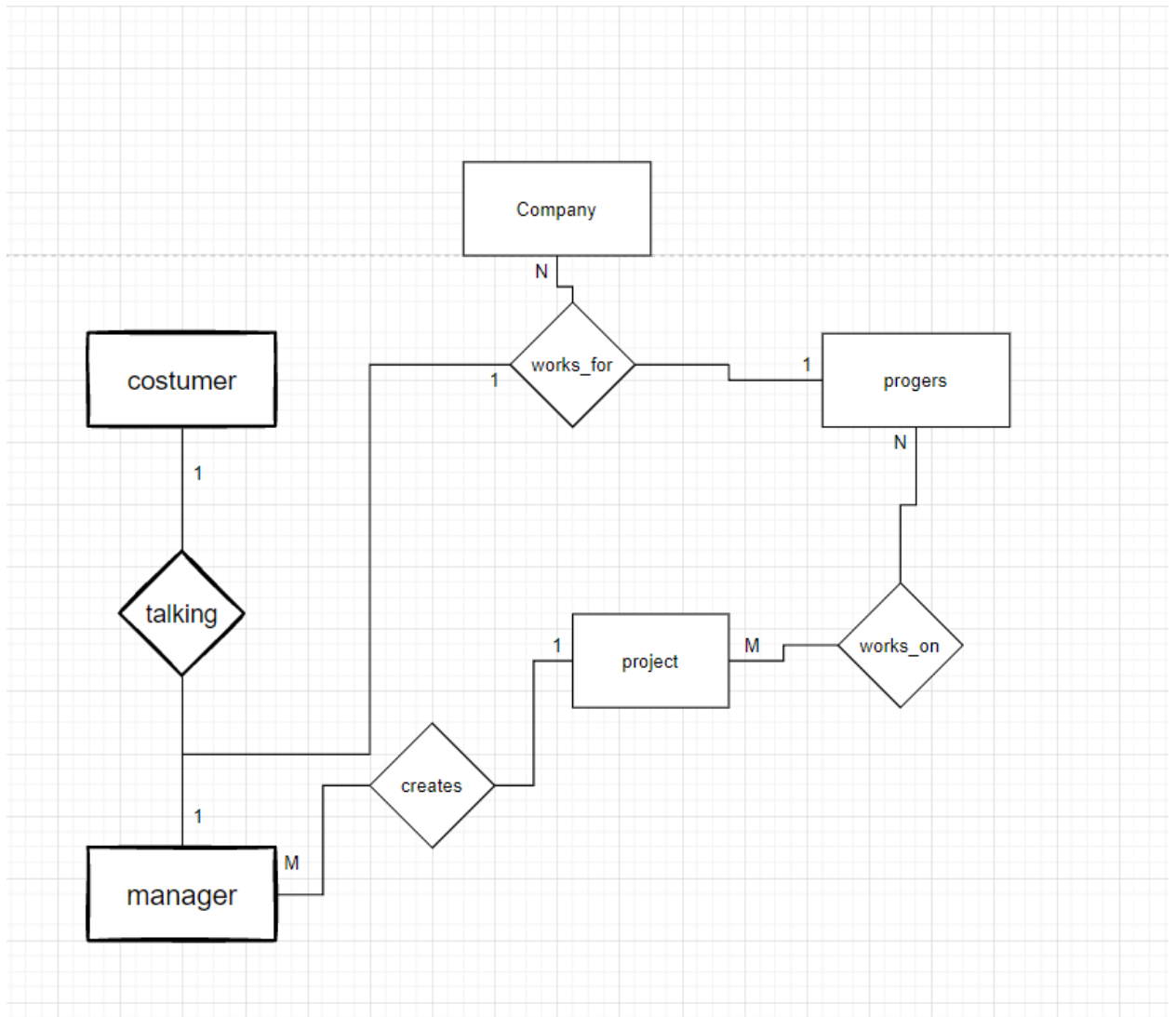


Office of the Registrar	
PK	ID
	name
	grade
	person_count

3a)







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