# **Relational Mapping – Tutorial 2.2**

Introduction

**Purpose:** The purpose of this tutorial is to help you develop skills required for mapping conceptual model diagrams (specifically ER diagrams) into a relational schema. You will additionally learn how to evaluate different mapping choices which could be made for one ER diagram.

**Learning Outcomes:** By the end of this tutorial you will be able to:

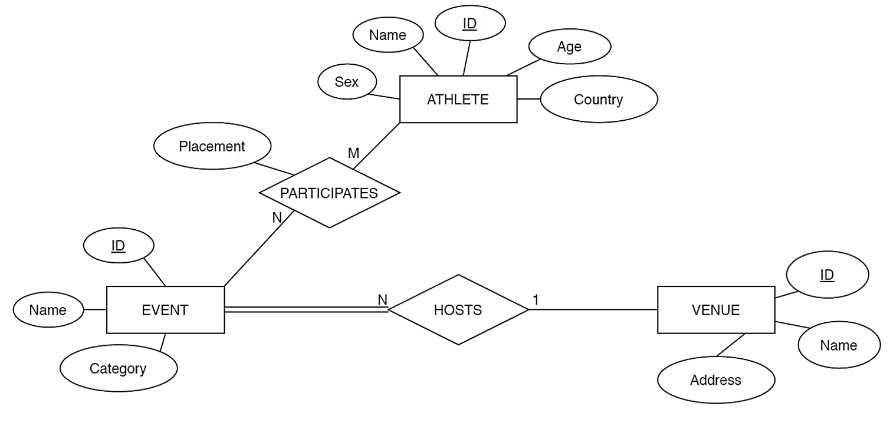
* Create relation schemas from ER and EER diagrams
* Understand the role foreign keys play in the mapping process
* Develop critical thinking skills to make effective decisions during the mapping process
* Understand the role of mapping in database design

# Section A: Basic Mapping

Create relational mappings for the following ER Diagrams. Note: All foreign keys between tables must be stated. Each question may have several correct answers.

## A.1

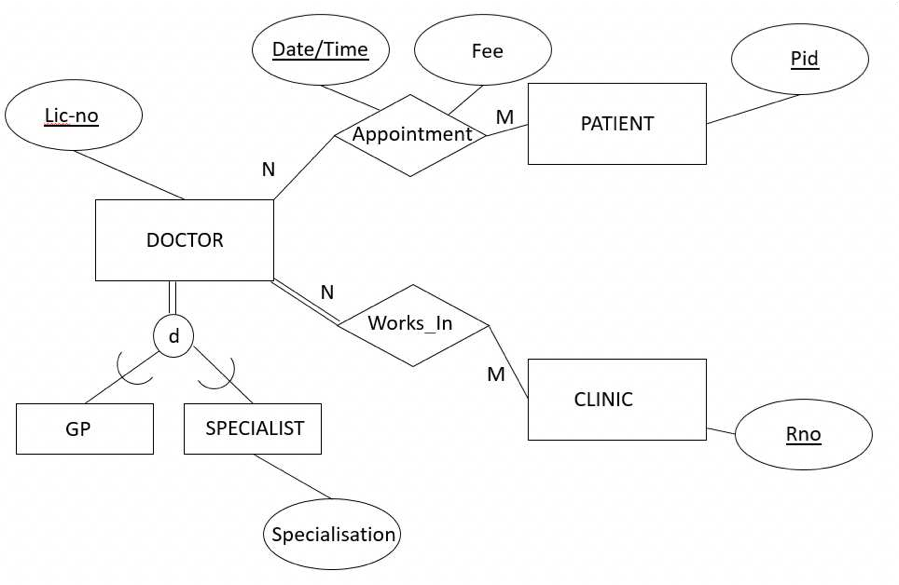
A.2



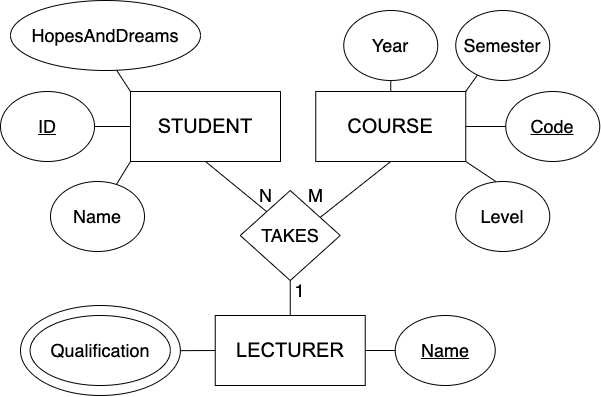
Section B: Advanced Mapping

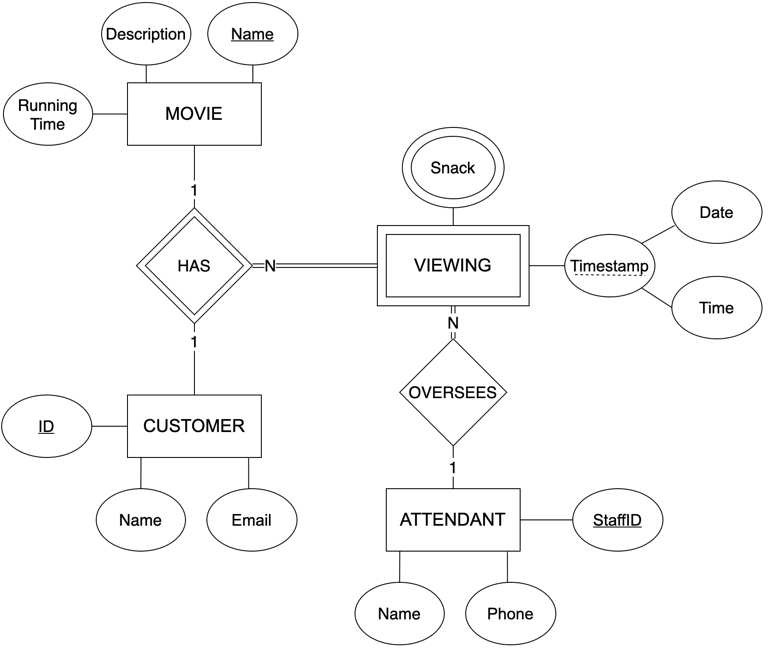
Create relational mappings for the following ER Diagrams. Note: All foreign keys between tables must be stated.

## B.1

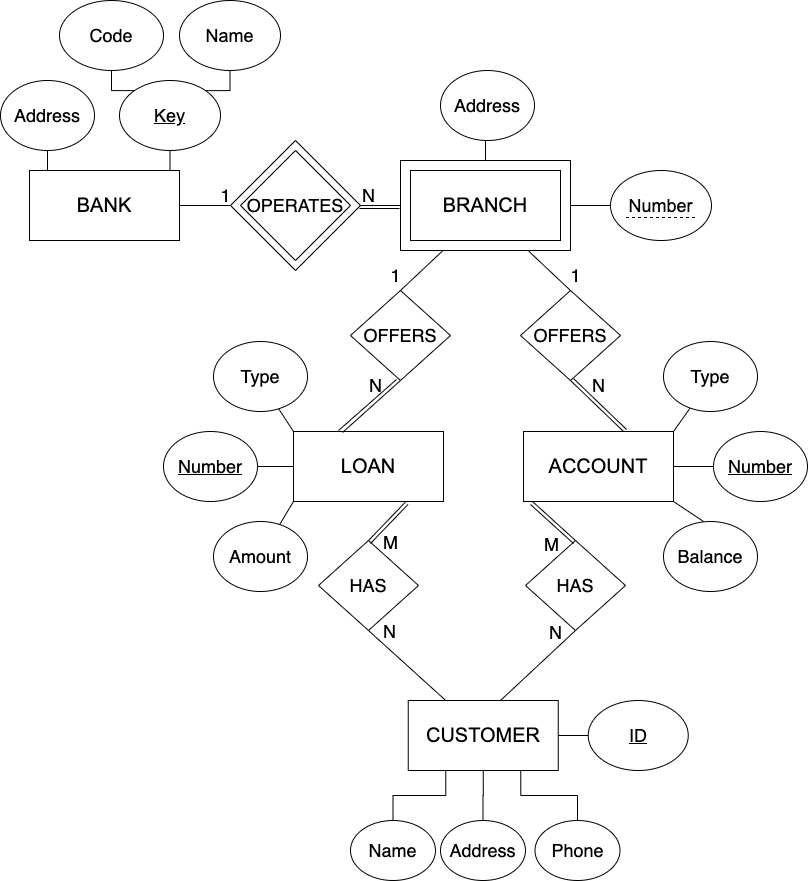


**B.2**



**B.3**

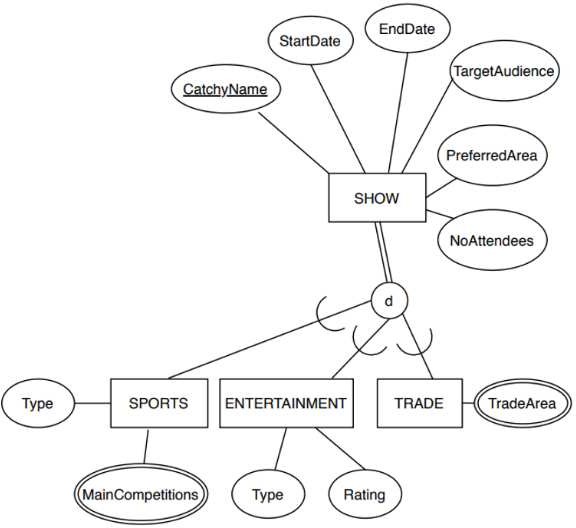
**B.4**



Section C: Extended Entity Relationship Diagram Mapping

Create relational mappings for the following EER Diagrams. Note: All foreign keys between tables must be stated. When mapping subclasses, please bear in mind that there may be several correct ways. Using your intuition, try to select the most appropriate mapping method. Consult with your tutor if your answer differs from the sample solution.

## C.1

**C.2**