

Higher Computing Science

Database Design: Exercise 2 Cardinality & ER

Exercise 2 – Answers

- (a) One-to-many

(b) One-to-many

(c) One-to-many

(d) **Student: Assignment**
Each student submits many assignments and each assignment is submitted by one student.
Task: Assignment
Each assignment consists of many tasks and each task is part of one assignment.
Task: Tutor
Each task is marked by one tutor and each tutor marks many tasks.

- (a) For example:

MOVIE

movieRef
title
duration
classification

ACTOR

actorNum
firstName
lastName
DOB

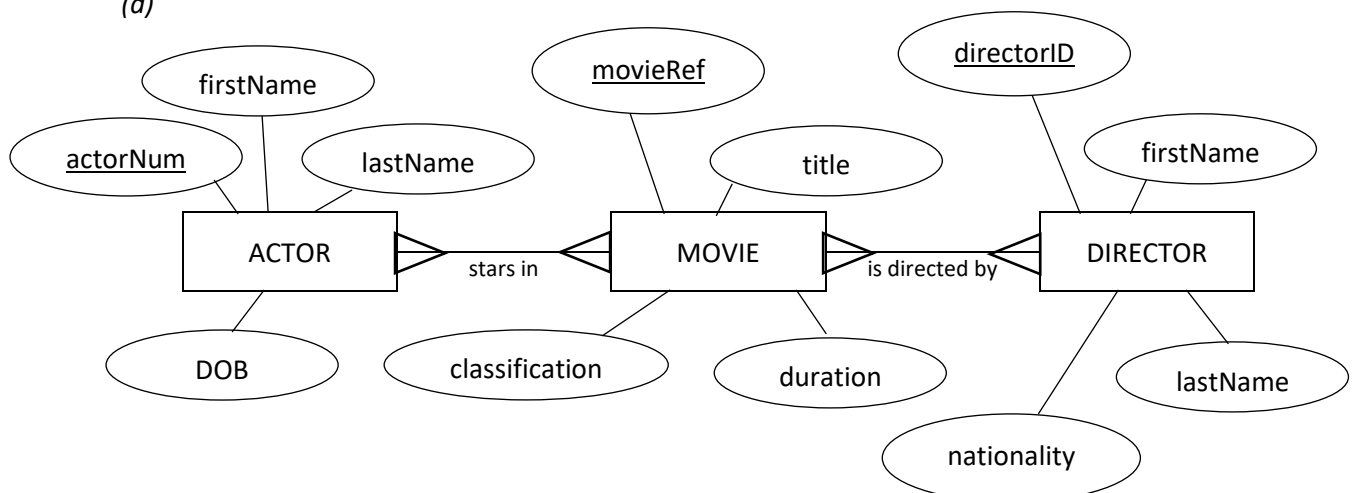
DIRECTOR

directorID
firstName
lastName
nationality

- (b) Many-to-many

- (c) Many-to-many

- (d)



3. (a) For example:

Continent

continent

area(km²)

population

numberCountries

Country

country

continent *

population

area(kn²)

City

city

population

area

country *

(b) One-to-many

(c) One-to-many

(d)

