

## DBMS 2023 Homework 3

繳交期限：04/02 23:59

繳交平台：Moodle

目的: 根據 Data Requirements，練習設計 Entity-Relationship Model、畫出 ER-Diagram

參考資料: 上課投影片 Entity-Relationship Model.ppt.

題目：

Consider a Movie database in which data is recorded about the movie industry. The data requirements are summarized as follows:

- Each movie is identified by title and year of release. Each movie has a length in minutes. Each has a production company, and each is classified under one or more genres (such as horror, action, drama, and so forth).
- Each movie has one or more directors and one or more actors appear in it. Each movie also has a plot outline. Finally, each movie has zero or more quotable quotes, each of which is spoken by a particular actor appearing in the movie.
- Actors are identified by name and date of birth and appear in one or more movies. Each actor has a role in the movie.
- Directors are also identified by name and date of birth and direct one or more movies. it is possible for a director to act on a movie (including one that he/she may also direct)
- Production companies are identified by name and each has an address. A production company produces one or more movies.

Design an entity-relationship diagram for the movie database. Submit your exercise in pdf format.