

IN1010 Data Modeling Exercise 3 – Movies

This exercise is a bit more conceptual.

Movies have an ID, a title and a release date. Actors have an ID, a name, and a date of birth. Directors have an ID, a name and a date of birth. Movies have many actors, actors can act in many movies, movies can have more than one director, and directors can direct many movies.

Develop data model in Visual Paradigm to represent the above scenario.

Entities, Attributes & Appropriate Keys:

Movie (Entity)

MovieID (primary key)

Title

ReleaseDate

Actor (Entity)

ActorID (primary key)

Name

DateOfBirth

Director (Entity)

DirectorID (primary key)

Name

DateOfBirth

MovieActor (composite key determined: MovieID, ActorID)

MovieID (foreign key)

ActorID (foreign key)

MovieDirector (composite key determined: MovieID, DirectorID)

MovieID (foreign key)

DirectorID (foreign key)

Relationships:

Movie – Actor: Many-to-Many

Movie – Director: Many-to-Many

Entity-Relationship Model (Movies):

