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Assignment 2 - Assumptions

We decided to let person be a supertype with actor and director as subtypes. Assuming an actor can also be a director and vice versa this will be an overlapping specialization, however a person must be an actor or director and therefore there is a total specialization as well. To represent payment for an actor for each tv-series a relationship type is made with payment as attribute. We assume that an actor can participate in several tv-series (M) and each tv series can have a number of N actors. Total participation is shown by the double line since a tv series has to have an actor but an actor doesn't need to be in a tv-series (they can be without a role). As a director receives payment for every episode they direct a relationship type payment is created between episodes and director where the attribute is payment. Every episode needs to have one director which is shown by a total participation line (double) but a director doesn't need to direct an episode (note that they can also direct several, N episodes). Episodes are a weak entity type since they can only be uniquely identified with the help of the name of the tv-series. Nickname is a multivalued attribute since an entity can have multiple nicknames, this is shown by the double circle.

(See page below for diagrams)

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ER Diagram (top)

Tv series

Title

Budget

Episodes

Episodes

Name

Number

Payment

Directing

N — 1

Act — N / N

Payment

Persons

Unique personal number

Name — Lname, Fname

Nickame

Rating

Actor

Director

O

Relational Schema (bottom)

Actor

UPN	Fname	Lname	Rating

Tv-series

Title	Budget

Act

UPN	Title	Payment

Director

UPN	Fname	Lname

Episodes

Name	Number	Title	DNumber	Payment

Nickname

UPN	Nickname