

Task 1 - EER-model

We created a superclass denoted person. An assumption was made, that a person in the TV-company must be an actor, a director or both.

An actor can act in multiple TV-series, and a TV-series can contain multiple actors. An actor gets a salary for participating in the TV-series(es), therefore we put salary as an attribute for the relationship type.

A TV-series consists of one or more episodes. Because the episode only is unique within a specific TV-series, we used an identifying relationship type, with an episode being a weak entity type.

One director can direct one or multiple episodes. These episodes don't necessarily have to be from the same series. Same here, we chose to put the director's salary as an attribute to the relationship type between director and episode.

Some Notes: We chose partial participation for all cases between actors/directors and TV-series/episodes. This since we believe that the TV-company may still be able to create and plan a TV-series/episode, even though they have not yet decided on who to hire for different roles.

At the same time, actors and directors may be hired but not assigned to a series or episode.

On the other hand, we chose total participation between an episode and a TV-series, this since an episode must belong to a series.

Clarifications: The relationship between series and episodes are 1:N, we don't see where you have read M:N from? The assumption we made, is exactly as you said. Different episodes may have the same name but belong to different TV-series. That's why we defined the "episode-name" as a partial key.

Regarding the cited assumption "The episodes don't necessarily have to be from the same series", we simply mean that a director can direct episodes from different series.