

Normalisation Exercise

The Scenario

The below table contains information about members of a movie tracking webiste. The website allows registered members to create a list of the movies they have seen.

Assumptions:

- member (email address) is unique to a single customer, but different customers could have the same name
- members can specify just one single favourite genre
- movies and movie_years contain lists of the movies a member has seen and the year that movie was released.

Exercise

Normalise the data by working through each normal form one-by-one from 1NF to 3NF.

For each stage note what tables exist, and what attributes (columns) they contain. You do not need to show the actual data contained in the table, but may do so if it helps!

If there is no violation of the rules of a given normal form, there may be nothing to do at that step.

member_movies table

member (KEY)	fav_genre	username	movies	movie_years
tomk@example.com	Horror	tommyk	The Shining	1980
johnd@example.com	Romance	themovieguy	Titanic	1997
janed@example.com	Comedy	iloveminions	Titanic, Minions	1997, 2015
maryw@example.com	Horror	horrorfan1990	The Shining, IT	1980, 2017