

DBMS ASSIGNMENT REPORT

-BY GROUP 27

Amendments into ER-diagram:

- ✚ Due to unavailability of awards data, we were forced to drop award entity and award attributes.
- ✚ Same goes for production company entity.
- ✚ In the initial er diagram rating is taken as derived quantity, where it is calculated from users given rating, but as it cannot be acquired it is dropped.
- ✚ Instead rating given in the product entity is directly used.
- ✚ Most of the composite attributes are replaced with multiple attributes.
- ✚ Certification(is adult) is directly given in product entity, no data regarding certification in different region is given. so, it was dropped.
- ✚ 'Awards to person' relation is also dropped as we could not find the data.

Refining the Dataset:

- All the multi valued attributes are declared as arrays as to simplify the importing process.
- By this, we had to edit the datasets for using the copy command.

- All the attributes in a table that have the type of text[],varchar[] need to be inside flower brackets.
- So , we wrote a python code to add these flower brackets at required positions.

Creating New Tables & Relations:

- After altering all the datasets, we created tables and inserted data into it using copy command.
- From the basic tables created , a new table movie info is created to have a movie by extracting all the tuples from product table that have title type as movie or tvMovie.
- Some of the columns that deemed unnecessary in movie entity are dropped.
- Region info is extracted from title akas to get language used in a region.
- Language info is the title akas, giving different titles in different regions and languages.
- Episode info is the episodes data set.
- Tv series info has a list of all the series extracted from product.
- We derived age from person table. Using birth year and death year.
- The problem we faced was that the null value is stored as '\N'. So, years were also stored as varchar to avoid error while using copy command.

- We used update command to change 'N' to null then alter command to change data type of year to big int.