

SQL Lab: Assignment 3 (due to 7.1.2010)

General Information

This week, you will “repair” the shortcomings of the IMDB data model we used in the last assignment and fill your improved model with data from IMDB.

Task

1. Create Tables

In order to do so, use SQL CREATE TABLE statements to re-create tables which can store the IMDB data inside your own DB2 schema (i.e. the one matching your login name, e.g. DBLAB73). **Include all statements** you used in your result sheet. Consider the following requirements:

- All **persons** involved in movie-making (e.g. actors, actresses, directors, costume designers, etc) should be unified into a single person table
 - But still, it should be clear how a person was involved – there shouldn’t be any information loss (e.g. it should be clear who the director was, and which actor played which character)
- All involved **companies** also should be unified (e.g. distributors, special effects companies, etc)
 - Perform unification similar to the person consolidation
- Information on **movies/titles** (including series and episodes), **links** between titles, **ratings**, **alternative title names**, and **genres** should be preserved.
 - All other information may be skipped / ignored, see the appendix.
- Each created table must define a **primary key**.
- Every time information in multiple tables is related, define **foreign keys**.
- Add simple consistency constraints to your tables (i.e. UNIQUE, NOT NULL, simple CHECK conditions, ...)

2. Import Data

After you created all tables in your schema, import all titles which were released or aired in 1980 or 1981 (as given by the movie_year attribute). Also, import all information directly related to those titles in your schema. **Include all statements** you used for importing the data in your result sheet.

- This means: Also import all companies, persons, ratings, etc. that are associated with any 1980/81 title into your schema.
- Especially, if episodes of series are imported that aired in 80/81, also the according TV series needs to be imported even if it started earlier (e.g. if you import episode 125 of 'ZDF Hitparade', you need also to import the main series entry originating from 1969).
- **Do not import any data which is not related to any movie from 1980/81!**
- Your current storage limit is 1.5 GB – if you receive a storage limit warning you imported the wrong data!

3. Query Data

Create SQL queries for the following questions. Use your own schema! **Include** the used **statements** and the **answer** in your result sheet.

- a) What is the rating of episode 1 of season 8 of the TV series 'The Waltons'?
- b) How many actors/actresses were involved in "Raiders of the Lost Ark"?
- c) How many titles were produced by Steven Spielberg in 1980 or 1981?
- d) How many movies (type = 'movie') are in your schema?

Email all used queries or results to your tutor. In addition, also **print** your queries and answers on paper and bring them to the next lab meeting.



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Appendix

MOVIES MOVIE_ID : VARCHAR (400) MOVIE_TITLE : VARCHAR (400) MOVIE_TYPE : VARCHAR (100) MOVIE_COUNT : INTEGER MOVIE_YEAR : INTEGER EPISODE_OF : VARCHAR (400) SEASON : INTEGER EPISODE : INTEGER PERIOD : SMALLINT	RUNNING_TIMES MOVIE_ID : VARCHAR (400) COUNTRY : VARCHAR (400) COUNTY : VARCHAR (400) RUNNING_TIME : INTEGER TEXT : VARCHAR (450)	TAGLINES MOVIE_ID : VARCHAR (400) TAGLINE : VARCHAR (2000)	COLOR_INFO MOVIE_ID : VARCHAR (400) COLOR_TYPE : VARCHAR (200) TEXT : VARCHAR (150)	MPAA_RATING_REASONS MOVIE_ID : VARCHAR (400) RATING : VARCHAR (500) REASON : VARCHAR (500) TEXT : VARCHAR (500)	LANGUAGES MOVIE_ID : VARCHAR (400) LANGUAGE : VARCHAR (400) TEXT : VARCHAR (400)	GENRES MOVIE_ID : VARCHAR (400) GENRE : VARCHAR (100)	ALTERNATE_VERSIONS MOVIE_ID : VARCHAR (400) TEXT : VARCHAR (400)	QUOTE MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	GENRES MOVIE_ID : VARCHAR (400) GENRE : VARCHAR (100)	ALTERNATE_VERSIONS MOVIE_ID : VARCHAR (400) TEXT : VARCHAR (400)	COMPLETE_CREW MOVIE_ID : VARCHAR (400) STATUS : VARCHAR (400)	CAST MOVIE_ID : VARCHAR (400) STATUS : VARCHAR (400)	AAA_TITLES MOVIE_ID : VARCHAR (400) AAA : VARCHAR (400) COUNTRY : VARCHAR (100) TEXT : VARCHAR (400)	AAA_TITLES MOVIE_ID : VARCHAR (400) AAA : VARCHAR (400) COUNTRY : VARCHAR (100) TEXT : VARCHAR (400)	
DISTRIBUTORS MOVIE_ID : VARCHAR (400) COMPANY_ID : VARCHAR (400) COMPANY_NAME : VARCHAR (400) COMPANY_COUNTRY : VARCHAR (400) COMPANY_COUNT : INTEGER TEXT : VARCHAR (400)	MISCELLANEOUS_COMPANIES MOVIE_ID : VARCHAR (400) COMPANY_ID : VARCHAR (400) COMPANY_NAME : VARCHAR (400) COMPANY_COUNTRY : VARCHAR (400) COMPANY_COUNT : INTEGER TEXT : VARCHAR (400)	SPECIAL_EFFECTS_COMPANIES MOVIE_ID : VARCHAR (400) COMPANY_ID : VARCHAR (400) COMPANY_NAME : VARCHAR (400) COMPANY_COUNTRY : VARCHAR (400) COMPANY_COUNT : INTEGER TEXT : VARCHAR (400)	PRODUCTION_COMPANIES MOVIE_ID : VARCHAR (400) COMPANY_ID : VARCHAR (400) COMPANY_NAME : VARCHAR (400) COMPANY_COUNTRY : VARCHAR (400) COMPANY_COUNT : INTEGER TEXT : VARCHAR (400)	RELEASE_DATES MOVIE_ID : VARCHAR (400) COUNTRY : VARCHAR (400) RELEASE_YEAR : INTEGER RELEASE_DATE : INTEGER TEXT : VARCHAR (400)	LOCATIONS MOVIE_ID : VARCHAR (400) LOCATION : VARCHAR (400) TEXT : VARCHAR (400)	RATINGS MOVIE_ID : VARCHAR (400) RATING : VARCHAR (400) DISTRIBUTION : VARCHAR (32) TEXT : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)	MOVIE_QUOTES MOVIE_ID : VARCHAR (400) QUOTE : VARCHAR (400)
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