

Lab Assignment

WORK IN GROUPS

- Work in groups (assigned in class) to design a database for one of the problem domains given below (next slide).
 - Draw your diagram first: specify the columns for each table and the corresponding relation between the tables (one-to-one, one-to-many, or many-to-many).
- Write the mysql commands to create the tables and insert data (follow requirements for your problem domain regarding how many records to insert).
- Run the commands from the file on sqlite3 and make sure there are no errors on the file
.read FILENAME
- Share the file among the members of the group so that each member can run the commands on their own account.

WORK INDIVIDUALLY

- If you haven't, run the commands from the file on sqlite3
- Issue the two queries required for your problem domain
- Submit your diagram, your sql commands file, your queries and their results (copy/paste from the terminal)

Lab Assignment, Problem Domains

Books and Authors. An author can have many books written, and in this case let's keep it simple by imagining each book having only one author.

- Number of records to insert: At least 3 different authors and at least 3 books per author
- Queries:
 - All the books of a specific author
 - Book title and author of books that satisfy a specific criteria (e.g., from a particular genre)

Movies and Directors. A director can direct many movies but a movie has only one director.

- Number of records to insert: At least 3 different directors and at least 3 movies per director
- Queries:
 - All the movies of a specific director
 - Movie title and director of movies that satisfy a specific criteria (e.g., from a particular genre)

Products and their reviews. A product can have none, one, or more reviews. A review consists of a rating, name of the reviewer, and comments.

- Number of records to insert: At least 3 different products and at least 3 reviews per product
- Queries:
 - All the reviews of a specific product
 - Product name and rating of products that satisfy a specific criteria (e.g., price range)

Players and their teams. A list of players of a particular sport (e.g., soccer, football, basketball, etc.) and their corresponding teams. A team has many players but a player plays for only one team.

- Number of records to insert: At least 3 different teams and at least 3 players per team
- Queries:
 - All the players of a specific team
 - Player name and team of players that satisfy a specific criteria (e.g., older than 30)