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Database specifications

This database will be used as a prototype for one I will be creating in mysql next semester, to support my master's project web page. The web page will be a digital library of story cue cards, most of them from Brian Sturm's storytelling class, but open to the public for submissions, and freely available via ibiblio.org. There will be two types of people submitting- students, and performing storytellers (whether professional, amateur, educators, etc). If the contributor is a student, that information will be recorded.

1.) The story itself will be separated into information about the story, and information about the performance of the story. The information about the story itself needs to include the title, author, title of the collection that it came from, at least 2 bibliographic variants (which can be listed together in one long text field), a brief comparison of the bibliographical variants, continent and country of origin if known (these two will be a list of choices), and a brief synopsis. One story can be submitted by multiple contributors, and the same contributor can submit multiple stories. Each story must have at least one character, but can have more. Each character can only be associated with one story.

The table might look like:

Story- title, author, title_collection, bibliographic variants, brief comparison of variants, continent of origin, country of origin if available, synopsis. Foreign keys- needs to be related to every other entity, so the story table will need to include foreign keys for each of the other tables. The Performance table is a subclass of Story, so it inherits all of the fields in Story. There also will be connecting tables for the many to many relationships Story:Contributor and Story:Developmental Group.

2.) The performance information must include the running time in minutes (broken into chunks of 2-5, 6-10, 11-15, 16-20 and 20+), desired audience emotions (up to 3, which must be separate fields for searchability purposes), and a free text field for rhymes/ special phrases/"flavor" of the performance, and number of scenes. It is an overlapping subclass of Story, so it will inherit all the attributes and the primary key.

The table might look like:

Performance- running time in mins(2-5, 6-10, 11-15, 16-20, 20+), audience emotions 1 2 & 3, #scenes, rhymes/special phrases/'flavor'

3.) Each story has a set of characters, which is associated only with that story. Each character needs to have a name and a dominant emotion associated with it.

The table might look like:

Characters- name (primary key), emotion. Foreign key from Story.

4.) Information about the audience that each story is aimed at- age group (primary key) up to 5 developmental characteristics that the story addresses and the reasons why. Each story can be associated with more than one Developmental Group, and each Development Group can have a list of multiple stories that is appropriate for it. Every story must have at least one dev group, but a group can be listed in the database that there aren't any stories associated with.

Table might look like:

Developmental group- age range(primary key), developmental characteristics 1 2 3 4 5, reasons 1 2 3 4 5, foreign key from Story:DevGroup relationship table.

5.) Contributor: Need name, email address, and a record of their permission to publish their story. Disjointed subclasses student and other inherit attributes of Contributor. Student subclass makes note of personal performance risks for grading purposes. This table has a many to many relationship with Story.

Table might look like:

Contributor- contrib_id (primary key), name, email, permission to publish. Foreign key from the Contrib:Story relationship table.

5.) Searchability needs: need to be able to find stories by age group, emotion, title, student/submitter, running time, and region of origin. Queries listing stories by each of these attributes will probably be used frequently.