CSCV 460 Assignment: Views and Constraints

1 Overview

In this assignment you will continually practice using SQL to write views, and constraints on the given movie database.

1.1 Movie Database Schema

Note that you should have the movie database created for the previous assignment. The movie database has three relations, with the schema listed below.

Movie (MovieID, Title, Year, Score, Votes)

Actor(ActorID, Name)

Casting (MovieID, ActorID, Ordinal)

1.1.1 Loaded database

Note that the three tables should have data loaded in the previous assignment using the given SQL script *tuples.sql*. The script is a sequence of insertion operations. The data is from the Internet Movie Database. There are 910 tuples in the Casting table, 807 Actors, and 58 movies.

1.2 Views to write

You need to create a file called *views.sql*, which is a text file containing your views for each of the questions given below. Each view should be created using a CREATE VIEW statement.

1. (15 points) The **KevinBacon** view is a table of the name of each actor that has been cast in a movie with *Kevin Bacon*, along with a count of the number of times they have been cast with Kevin Bacon.

2. (15 points) The **Popularity** view is a table of the ID, name, and composite score of each actor. The composite score is the sum of the **score * votes** for every movie the actor has been cast.

1.3 Constraints to write

You need to create a file called *constraints.sql*, which is a text file containing your constraints for each of the questions given below.

1. (10 points) The default actor name is 'Adam Sandler'.

2. (10 points) The score for a movie must be a value between 0 and 10.

3. (10 points) After you successfully set up the score constraint, first you then disable the constraint; second you enable the constraint. (The lecture slides have a link to the ALTER TABLE document at oracle web site. You should check the document to see how to write a enable_disable_clause using ENABLE or DISABLE in the ALTER TABLE statement.)

The text file should be formatted as follows.

```
-- Constraint 1
-- The default actor name is 'Adam Sandler'.
ALTER TABLE ...
-- Insertion/update/or delete to test the constraint
INSERT INTO ...
-- Constraint 2
```

2 Turn-in

Please turn in your completed work to D2L Assignments folder Views and Constraints.

Your turn-in package should include:

1. *views.sql*, which contains the SQL statements for views you need to define.

2. *constraints.sql*, which contains the SQL statements for constraints you need to define.