Database assignment

Due 10/10/2016 at 11:55 pm

Disclaimer

The database comes from the Ullman-Widom textbook. We are using their database schema for this assignment. A scan of some parts of their text was used. We only wrote out the question asking students to do specific things.

Chapter 2 of Ullman-Widom textbook provides the following "example" database schema for movies. The natural language descriptions for each of the tables is in chapter 2.

```
Movies(
    title:string,
    year:integer,
    length:integer,
    genre:string,
    studioName:string,
    producerC#:integer
)

MovieStar(
    name:string,
    address:string,
    gender:char,
    birthdate:date
)

StarsIn(
    movieTitle:string,
    movieYear:integer,
    starName:string
)

MovieExec(
    name:string,
    address:string,
    cert#:integer,
    netWorth:integer
)

Studio(
    name:string,
    address:string,
    presC#:integer
)
```

Question 1:

a) For each of the tables (i.e. Movie,Star,Studio,StarsIn,MovieStar) write the SQL to create the table and store it in a file called **moviedatabase_create.sql**. (10 Points)
b) Create a file called **moviedatabase_insert.sql**, and in this file be sure write insertion of at least 3 records in each table. You do not get extra credit for having 10s or 100s of rows – we just want to see 3 rows at least in each table. (5 Points)

** You will not be penalized for not having primary key or foreign keys for this database. We will only check for the table, columns, and data type. In another assignment, we will look at primary and foreign keys.

Question 2:

Write your answers to the following and save it to a file called **firstName.lastname.docx**
Please note, I want an MSWord file and not a pdf file.

a) Why is it that some ENTITIES have tables and yet some relationships have tables? (**2 Point**)

b) When you implemented your SQL, you realized some of the attribute names or entity names or relationship names may not execute. What changes did you have to make to any names (if necessary) to make all your queries run. (**2 Point**)

c) How can the key and foreign key constraints be enforced by the DBMS? Is the enforcement technique you suggested difficult to implement? Can the constraint checks be executed efficiently when updates are applied to the database? (4 marks)