Assignment 1 – Relational Database

This assignment requires you to create, populate, and manipulate a database using SQL. Your mark counts for 15% of your final grade.

Due Date: **Wednesday, Feb 6th @ 11:59 pm**

Submission Requirement via Blackboard:
- a single .SQL file containing all your SQL commands

All work must be your own. Failure to submit an independent assignment will result in a grade of zero and be reported to the administration.

Description: 1980's Movies Database
In this assignment you will use SQL to:

- Plan and build database tables using good naming conventions and appropriate data types
- Add data to your tables
- Query your tables
- Update data from your tables
- Remove data from your tables
- Document your code with comments within your script

Application Requirements:

1. Document each section of your scripts with comments. You do not need to document every single line.

2. Design and use SQL to create a "studios" table to store:
    a. name
    b. city
    c. state
    d. year opened

3. Use SQL to add the following clients:
    a. Paramount / Hollywood / CA / 1912
    b. Warner Bros. / Burbank / CA / 1918
    c. Columbia / Los Angeles / CA / 1919
    d. Disney / Burbank / CA / 1929
    e. Universal / New York / NY / 1912
    f. 20TH Century Fox / Los Angeles / CA / 1935

4. Design and use SQL to create a "movies" table to store:
    a. title
    b. year
    c. 5-star rating
    d. length
    e. studio

5. Add the following movies information using SQL Plus an additional 15 movies(from the 1980's) found using online resources(ex:IMDB)

Title	Year	5 Star Rating	Length	Studio
Star Wars: The Empire Strikes back	1980	5	2 hr 4 min	20th Century Fox
Airplane	1980	1	1 hr 28 min	Paramount
The Shining	1980	3	2 hr 26 min	Warner Bros.
The Terminator	1984	3	1 hr 47 min	20th Centur Fox
Honey, I shrunk the kids!	1989	5	1 hr 33 min	Disney
Die Hard	1988	4	2 hr 12 min	20th Century Fox
Superman II	1980	2	2 hr 7 min	Columbia
Back to the future	1985	5	1 hr 56 min	Universal
Raiders of the Lost Ark	1981	5	1 hr 55 min	Paramount
Blade Runner	1982	4	1 hr 57 min	Warner Bros.
Ghostbusters	1984	2	1 hr 45 min	Columbia

6. Use SQL to generate the following queries (each in a single command):
    a. Show all movies made in 1980 or 1981
    b. Show the longest 5 movies in the database
    c. Show all movie ordered by year, then by Title
    d. Show all movies by Paramount or Universal newer than 1985
    e. Show all movies that include "the" in the title
    f. Show all movies longer than 2 hours with a 3 star rating or better.
    g. Show how many movies each studios has and the average movie rating.
    h. Show all movies that where made in an odd number year.(eg:1981,1983…ect)

7. Use SQL to make the following updates (each in a single command):
    a. Change studio and movies so "Warner Bros." becomes "Warner Brothers"
    b. Add the text "Schwarzenegger " before the title of any Terminator movies
    c. All 2 star movies become 3 star movies
    d. Add 1 minute to all movie lengths

8. Use SQL to remove the following:
    a. The Disney studio and any Disney movie
    b. Any movies that contain the letter "K"
    c. Any movie with a 1 star rating

9. Add any two additional functionality of your choosing. Meaning use two commands(key words) in anyway you'd like that haven't been used in the assignment so far.

Evaluation Method

Your work will be evaluated based on how your SQL scripts perform when I run them on my own database.

Evaluation Criteria (max 38 marks)

Criteria	0-2	3-4	5-6	7-8	Marks
Create Table	- Little or no tables	- Partly complete tables	- Mostly complete, mostly logical data types	- Complete, well-designed tables with good use of data types	**4**
Insert Data	- No create	- Some	- Most create	- All functioning create	**8**
Query Data	- No queries	- Some queries	- Most queries	- All functioning queries	**8**
Update Data	- No update	- Some update	- Most update	- All functioning update	**8**
Delete Data	- No delete	- Some delete	- Most delete	- All functioning delete	**4**
Code Commenting	- No comments	- Some attempt to explain code	- Most sections clearly explained	- All sections clearly explained	**2**
				- marks for any additional working functionality of your choosing	**4**