CSE 232

Assignment #1 (SQL)

Due Thursday, October 12, 2000

The cinema database has the following schema:

movie: title, director, actor
schedule: theater, title, phone

Use INGRES SQL to do the following:

(a) Create a database with the above schema.

(b) Insert tuples in the two relations to generate the following instance:

movie	*title*	*director*	*actor*
	Hamlet	Zeffirelli	Gibson
	Hamlet	Zeffirelli	Close
	Hamlet	Zeffirelli	Hussey
	Richard III	Loncraine	McKellen
	Richard III	Loncraine	Bening
	Richard III	Loncraine	Hussey
	Romeo and Juliet	Zeffirelli	Whiting
	Romeo and Juliet	Zeffirelli	Hussey
	Much Ado	Branagh	Branagh
	Much Ado	Branagh	Zeffirelli
	Much Ado	Branagh	Whiting
	Trouble with Harry	Hitchcock	Gwenn
	Trouble with Harry	Hitchcock	Hitchcock
	The Birds	Hitchcock	Gwenn
	Flower of Peking	Ping	Yi
	Flower of Peking	Ping	Chan

schedule	*theater*	*title*	*phone*
	Cove	Hamlet	459-5404
	Cove	Richard III	459-5404
	Guild	Romeo and Juliet	295-2000
	Guild	Much Ado	295-2000
	Ken	Flower of Peking	283-5909
	Ken	Trouble with Harry	283-5909
	Park	The Birds	294-9264

Note: To avoid typing in all the tuples copy them from the text file provided into an SQL script file which you can then edit.

(c) List the contents of relations *movie* and *schedule*.

(d) Formulate and execute the following queries using SQL:

1. List the titles of all movies playing at the Cove.
2. List the titles and directors of all movies playing at the Cove.
3. List all theaters showing a movie by Hitchcock, and their phone numbers.
4. List all directors who are also actors in some movie.
5. List all directors who are also actors in their own movie.
6. List the actors cast in at least one movie by Zeffirelli.
7. List the actors cast in every movie by Zeffirelli.
8. List the actors cast only in movies by Zeffirelli.

(e) Formulate and execute the following updates in SQL.

1. Change the title "Flower of Peking" to "Flower of Beijing".
2. Switch the movies playing at the Cove and at the Guild, without mentioning explicitly any film title in the update (imagine there might be 15 movies shown at each of these theaters, and you want to avoid switching them one-by-one). You may use several SQL commands.

(f) List again the contents of relations *movie* and *schedule*.

Turn in a script of (c) through (f) (use the UNIX *script* command).