CSC343 Worksheet 5 Solution

June 18, 2020

1. a)
```
1   CREATE TABLE MovieExec (
2       name CHAR(30),
3       address VARCHAR(255),
4       cert# INT PRIMARY KEY,
5       FOREIGN KEY (cert#) REFERENCES Movies(producerC#)
6   );
7
```

Example:

- Foreign-key
    - **Syntax 1:** FOREIGN KEY ($<$ attributes $>$) REFERENCES $<$ table $>$($<$ attributes $>$)
    - **Syntax 2:** REFERENCES $<$ table $>$($<$ attributes $>$)
    - Binds an attribute of one relation to an anttribute in another table
    - Added when creating table

    ### Example:

```
1   // Example 1
2   CREATE TABLE Studio (
3       name CHAR(30) PRIMARY KEY,
4       address VARCHAR(255),
5       presC# INT REFERENCES MovieExeC(cert#)
6   );
7
8   // Example 2
9   CREATE TABLE Studio (
10      name CHAR(30) PRIMARY KEY,
11      address VARCHAR(255),
12      presC# INT,
13      FOREIGN KEY (presC#) REFERENCES MovieExec(cert#)
14  );
15
```

b)
```
CREATE TABLE Movies (
    title CHAR(30) PRIMARY KEY,
    year INT PRIMARY KEY,
    length INT,
    genre VARCHAR(255),
    studioName VARCHAR(255),
    producerC# PRIMARY KEY
);
```