CSC343 Worksheet 6 Solution

June 21, 2020

1. Exercise 8.1.1:

```
a) CREATE VIEW RichExec AS

SELECT * FROM MovieExec

WHERE netWorth >= 10000000;
```

Notes:

- Virtual Views
 - Syntax: CREATE VIEW < view-name > AS < view-definition >
 - Contrasts to database that exists in physical storage
 - Exists in RAM
 - Is created using query
 - can be used like a relation

NATURAL JOIN MovieStar;

$\underline{\mathbf{Notes:}}$

```
CREATE VIEW ParamountMovies AS

SELECT title, year

FROM Movies

WHERE studioName = 'Paramount';
```

2. Exericse 8.1.2:

```
a) SELECT name, gender FROM ExecutiveStar;
b) SELECT name FROM RichExec WHERE netWorth > 10000000;
c) SELECT name FROM StudioPres
NATURAL JOIN ExecutiveStar
WHERE netWorth > 50000000
```

3. Exericse 8.2.1:

RichExec is updatable.

Notes:

- Updatable View Conditions
 - The WHERE cluase in CREATE VIEW must not be a subquery
 - The FROM clause has only one occurrence of R
 - The SELECT clause must include enough attributes
 - NOT NULL attributes must have default values
 - * A solution to this is by including the attribute without default value in CREATE VIEW

Example:

```
Movies(title, year, length, genre, studioName, producerC#)
Suppose studioName is NOT NULL but has no default value.
Then, a fix is:

CREATE VIEW Paramount AS
SELECT studioName, title, year
FROM Movies
WHERE studioName = 'Paramount';
```

4. Exericse 8.2.2:

- a) No. It is not updatable. Since,
 - 1. studioName is NOT NULL without default value