

CSC343 Worksheet 6 Solution

June 21, 2020

1. Exercise 8.1.1:

```
a) CREATE VIEW RichExec AS
2   SELECT * FROM MovieExec
3   WHERE netWorth >= 100000000;
4
```

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

Notes:

```
1   CREATE VIEW ParamountMovies AS
2   SELECT title, year
3   FROM Movies
4   WHERE studioName = 'Paramount';
5
```

```
b) CREATE VIEW StudioPres AS
2   SELECT * FROM Movies
3   INNER JOIN Studio ON cert# = presC#;
4
```

```
c) CREATE VIEW ExecutiveStar AS
2   SELECT * FROM MovieExec
3   NATURAL JOIN MovieStar;
4
```

2. Exercise 8.1.2:

a) `SELECT name, gender FROM ExecutiveStar;`
2

b) `SELECT name FROM RichExec WHERE netWorth > 100000000;`
2

c) `SELECT name FROM StudioPres`
2 `NATURAL JOIN ExecutiveStar`
3 `WHERE netWorth > 50000000`
4

3. Exercise 8.1.3:

Notes:

- Updatable View Conditions
 - The WHERE clause 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