

This document outlines the use of my IMDB-like application, created in my Databases class.

1. INSTALLATION

- Download the repository
- Install Oracle Database
- Populate the database using `populate.jar`
 - **Contact me** for the files used to create the database -- I do not future Database students using my code and DB design in their projects.
- Then run the application using `hw3.jar`

2. SAMPLE EXECUTION

The screenshot shows a web application titled "Colton's Super Awesome IMDB Recreation". It features several search filters on the left: Genre (Action, Adventure, Animation, Children, Comedy, Crime, Documentary, Drama, Fantasy, Film-Noir, Horror, IMAX, Musical), Country (Russia, South Africa, South Korea, Soviet Union, Spain, Sweden, Switzerland, Taiwan, Thailand, UK, USA, Venezuela, West Germany, Yugoslavia), and Filming Location Country (Thailand, Tunisia, Turkey, UK, USA, USS Independence CV-62, Uganda, United Arab Emirates, Uruguay, Vatican City, Yemen, Zimbabwe). There are also fields for Critics' Rating (Value: 8), Movie Year (From: 0, To: 2018), and Movie Tags (e.g., (s)vcd, 1950s, 1970s, 1980s, 2000s, 5 stars, 70mm, 70mm blowup, 70s, 80s, 90s). A "Search between values:" section has a dropdown set to "AND".

Below the filters is a "Query" panel containing a SQL query:

```
SELECT O.id, O.title FROM (
SELECT DISTINCT M.id, M.title
FROM movies M, movie_genres G, movie_countries C, movie_locations L, movie_tags MT
WHERE M.id=G.movieID AND G.movieID=C.movieID AND C.movieID=L.movieID AND
      L.movieID=MT.movieID AND MT.tagID=T.id AND
      G.genre='Action' AND C.country='USA' AND L.location1='USA' AND M.rating>7
ORDER BY O.title
```

To the right of the query is a "Results (2 found)" panel showing two results:

- ☐ Star Wars: Episode V - The Empire Strikes Back - id: 1196
- ☐ The Dark Knight - id: 58559

At the bottom of the application are two buttons: "EXECUTE" and "SHOW INFO".

- Select options from the top columns (which generate the query in the bottom left panel)
- Press the **EXECUTE** button below that panel to generate results (in the bottom right panel)
- Then select the desired result checkboxes and click **SHOW INFO**

The screenshot displays a database application interface with several panels:

- Genre Filter:** A list of genres with checkboxes. 'Action' is selected.
- Country Filter:** A list of countries with checkboxes. 'USA' is selected.
- Filming Location Country Filter:** A list of countries with checkboxes. 'USA' is selected.
- Critical Rating:** A dropdown menu showing '9'.
- Movie Year (Inclusive):** A range from '0' to '2018'.
- Movie Tags:** A list of tags with checkboxes. '60vcd' is selected.
- Query Panel:** A text area containing a SQL query:


```
SELECT O.id, O.title FROM (
  SELECT DISTINCT M.id, M.title
  FROM movies M, movie_genres G, movie_countries C, movie_locations L, movie_ratings R
  WHERE M.id=G.movieID AND G.movieID=C.movieID AND C.movieID=L.movieID AND
  L.movieID=MT.movieID AND MT.tagID=T.id AND
  G.genre='Action' AND C.country='USA' AND L.location!='USA' AND M.rating=
  ORDER BY O.title
```
- Results (2 found):** A list of two movies:
 - ☒ Star Wars: Episode V - The Empire Strikes Back - id: 1196
 - ☒ The Dark Knight - id: 58559
- Movie Detail Panels:** Two panels showing detailed information for the selected movies:
 - The Dark Knight:**
 - Title: The Dark Knight
 - Genres: Action, Drama, Crime, IMAX
 - Year: 2008
 - Countries: USA
 - Filming Locations: USA, Illinois, Chicago; UK, England, Surrey, Chertsey; UK, England, Hertfordshire, Leavesden Studios, Leavesden; USA, Illinois, Chicago, Richard J. Daley Center - 55 W. Randolph Street, The Loop, Downtown; China, Hong Kong, Central, 2 International Finance Centre; China, Hong Kong, Central, The Center
 - Star Wars: Episode V - The Empire Strikes Back:**
 - Title: Star Wars: Episode V - The Empire Strikes Back
 - Genres: Action, Sci-Fi, Adventure
 - Year: 1980
 - Countries: USA
 - Filming Locations: USA, California, San Francisco Bay, Alcatraz Island; UK, England, Hertfordshire, Elstree Studios, Borehamwood; UK, England, London, Lee International Studios, Wembley; Norway, Finse, Hardangerjøkulen Glacier
 - Avg Rating: (empty field)

- Once **SHOW INFO** is pressed, a window will appear for each checkbox selected in the bottom-right results panel, and will display the movies':
 - Title
 - Genre(s)
 - Release Year
 - Country of origin
 - Filming Location(s)
 - Average Rating (across IMDB users, Rotten Tomatoes users, etc.)
 - Average Number of Reviews (across IMDB, Rotten Tomatoes, etc.)