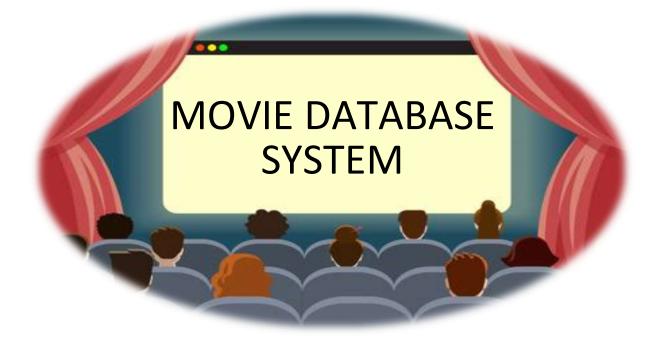
DATABASE SYSTEM MINI – PROJECT



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Abstract:

The birth of cinema in late 1880's gave rise to a new form of entertainment content. Over the years as the number of viewers increased, the amount of content being filmed and produced annually has increased abundantly too. It is now almost hectic for viewers to keep track of movies and TV series that are being released our project tries to help the same by compiling various movies. TV series etc. As well as other data like critic ratings, production houses, directors and actors for those interested.

Problem Statement

Designing and implementing a GUI based system to view the data about movie like year of release, actors, director, production house and most importantly the critics rating and user rating. User can find the movie details based on name, genre, actor name, year of release. The registered users can also rate the movies which will affect the overall user rating of the corresponding movie.

DDL Commands to create tables with data:

1.

```
create table movies(id number(5) primary key, name varchar2(30), YOR number(4), user_rating number(2,1), critics_rating number(2,1), production_house varchar2(30), genre varchar2(20), actor_id number(5), director_id number(5), foreign key (actor_id) references actor, foreign key (director_id) references director);
```

ID NAME	YOR USER_RATING CRITICS_RATING PRODUCTION_HOUSE			GENRE	ACTOR_ID DIRECTOR		
101 Dangal	2016	7.8	7.8 UTV Motion Pictures	Sports Drama		15	
102 Sultan	2016	8.2	6.6 Yash Raj Films	Sports Drama		11	
103 Airlift	2016	9.1	7.5 T-Series	Drama		2	
104 Fan	2016	7.9	7.6 Yash Raj Films	Drama		12	
105 Shivaay	2016		5.6 Ajay DevganFFilma	Drama		1	
106 Simbaa	2018		6.3 Reliance Entertainment	Action		10	
107 Zero	2018	7.1	6.3 Yash Raj Films	Drama		12	
108 Bhadai Ho	2018		6.7 Junglee Pictures	Drama		4	
109 Manikarnika	2019		6.3 Zee Studio	Period Drama		6	
110 Andhadhun	2018		6.2 Viacom 18 Motion Pictures	Drama		4	
111 Uri: The Surgical Strike	2019	8.8	6.1 RSVP Movies	Action		13	
112 Padmavat	2018	8.5	5.7 Bhansali Productions	Period Drama		10	
113 Stree	2018		6.9 Maddock Films	Comedy		8	
114 Sanju	2018	8.4	7.1 Vinod Chopra Films	Biopic			
115 Thackeray	2019		4.6 Viacom 18 Motion Pictures	Biopic		7	
116 Padman	2018	7.4	6.9 Columbia Pictures	Drama		2	
117 Raazi	2018	8.6	6.6 Junglee Pictures	Thriller		210	
118 Why Cheat India	2019		7.9 T Series	Drama		5	
119 Kick	2014	8.5	7 Nadiawala G.Entertainment	Action		11	
120 Chak De India	2007	8.9	6.9 Yash Raj Films	Sports Drama		12	
121 My name is Khan	2010	7.6	6.6 Red Chillies Entertainment			12	
122 Bobbay Velvet	2015		6.2 Phantom Films	Drama		14	

2.

create table actor(actor_id number(5) primary key, actor_name varchar(20), sex char(1), age number(2), dob date, number of movies number(3));

```
SQL> select * from actor;
  ACTOR ID ACTOR NAME
                                                            AGE DOB
                                                                                 NUMBER OF MOVIES
               Ajay Devgan
                                                              50 02-APR-69
            2 Akshay Kumar
3 Alia Bhat
                                                             52 02-SEP-67
26 15-MAR-93
                                                                                                      28
13
            4 Ayushman Khurana
                                                              35 14-SEP-84
               Emrran Hasmi
               Kangana Ranawat
Nawazuddin Siddiqui
                                                             32 23-MAR-87
45 19-MAY-74
                                              M
M
M
                                                             35
37
               Rajkumar Rao
            8
                                                                  31-JUL-84
               Ranbir Kapoor
                                                                  28-SEP-82
           10 Ranveer Singh
11 Salman Khan
12 Shah Rukh Khan
13 Vicky Kaushal
14 Karan Johar
                                                             34 06-JUL-85
54 27-DEC-65
54 02-NOV-65
                                                                 16-MAY-88
                                                                  25-MAY-72
           15 Amir Khan
                                                              54 14-MAR-65
15 rows selected.
```

3.

create table director(director_id number(5) primary key, director_name varchar(20), sex char(1), age number(2), dob date, number of movies number(3));

```
SQL> select * from director;
DIRECTOR_ID DIRECTOR_NAME
                                                              AGE DOB
                                                                                   NUMBER_OF_MOVIES
           201 Abhijit Panse
                                                                59 12-JAN-60
                                                                                                        32
           202 Aditya Chopra
203 Aditya Dhar
                                                                                                        34
                                                                50 02-APR-69
                                                                48 02-SEP-67
           204 Ajay Devgan
205 Ali Abbas Zafar
                                                                32 15-MAR-87
                                                M M M M M M M M M M M M M
                                                                    14-SEP-84
           206 Amar Kaushik
207 Amit R. Sharma
208 Anand L. Rai
209 Karan Johar
                                                               42 24-MAR-79
                                                               52 23-MAR-67
                                                               45 19-MAY-74
                                                                   31-JUL-84
28-SEP-82
            210
                 Meghna Gulzar
           211 Nitesh Tiwari
212 R. Balki
                                                               34 06-JUL-85
54 27-DEC-65
                                                                                                        23
43
           213 Radha Krishna
214 Raja Krishna Menon
215 Rajkumar Hirani
                                                                                                        22
11
                                                                54 02-NOV-65
                                                                    16-MAY-88
                                                               51 14-0CT-68
41 15-SEP-78
54 10-DEC-65
           216 Rohit Shetty
217 Sajid Nadiawala
                                                                                                        64
                Sanjay L. Bhansali
Shimit Amin
                                                                                                        23
54
                                                               47
                                                                   09-MAR-72
           218
                                                               43 07-APR-76
            220
                 Soumik Sen
                                                                39
                                                                   02-JUL-80
                                                M
M
                 Sriram Raghavan
                                                                41 14-FEB-78
                                                                                                        16
                                                                50 12-DEC-89
           222 Anurag Kashyap
22 rows selected.
```

4.

create table earning(id number(5) primary key, domestic_earning varchar(10), overseas_earning varchar(10), gross_earning varchar(10), foreign key (id) references movies);

5.

create table critic_rating(id number(5) primary key, india_today number(2,1), toi number(2,1), imdb number(2,1), rotten_tomato number(2,1), average number(2,1), foreign key (id) references movies);

```
SQL> select * from critic_rating;
                   ID INDIA_TODAY
                                                                                                       IMDB ROTTEN_TOMATO
                                                                                                                                                               AVERAGE
                                            75.167.75.567.75.567.4.55.574.4.467.55.574.4.467.55.57
                                                                                                                                             8.9
7.4
7.8
8.1
3.5
8.7
8.8
                 101
102
                                                                            6.8
7.3
8.3
8.5
7.5
4.5
4.5
4.5
7.6
8.8
9.9
9.9
                                                                                                                                                                         103
104
105
106
107
108
109
                                                                                                                                             9.6
8.4
9.6
5.8
7.6
9.6
5.7
4.6
5.7
4.6
5.8
9.6
                 110
111
112
113
114
                 120
121
                 122
22 rows selected.
```

7.
create table user_rating(id number(5),
user_id number(5),
rating number(2,1),
add_comment varchar2(50),
primary key(id, user_id),
foreign key (id) references movies,
foreign key (user_id) references users);

```
SQL> select * from user_rating;
               USER_ID
                            RATING ADD_COMMENT
                               7.8 Amazing
       101
                   301
                               8.8 Deep
       102
                   301
       121
                   302
                                7.6 Quit Teaching
                               7.4 Superb Acting
       116
                   303
       119
                   304
                               8.9 Amazing Plot
       103
                   305
                               9.1
       107
                   303
                                7.2 Nice Songs
                               7.9 Amazing
       104
                   305
       107
                   307
                               7.1 Superb End
       120
                   308
                                8.9 Nice Songs
       112
                   309
                               8.2
                   301
                               8.9
       117
       114
                   308
                               8.4 Deep
       112
                   302
                               9.1 Quite Teaching
                               7.7 Nice Plot
8.3 Nice Plot
       102
                   303
       117
                   303
       111
                   302
                               8.8 Amazing
       112
                   301
                               8.3 Superb Acting
       119
                   301
                               8.1
19 rows selected.
```

8.

create table users(user_id number(5) primary key, name varchar(20), phone_number number(10), age number(2), date added date);

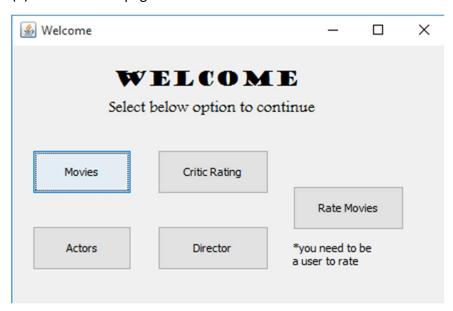
```
SQL> select * from users;
   USER ID NAME
                                  PHONE NUMBER
                                                        AGE DATE ADDE
                                    3674876535
                                                         18 12-DEC-15
       301 Ram
       302 Shyam
303 Abhijeet
                                                          21 15-OCT-17
                                                         18 01-JAN-14
                                    1536575419
                                                         22 12-SEP-19
25 17-MAR-18
                                    1767455627
       304 Ankit
       305 Prashant
                                     1824355612
                                     1652638565
                                                         43 19-FEB-17
       306 Raj
                                                          30 02-MAR-16
       307 Rupesh
                                     3234355698
       308 Akshat
                                     2765425638
                                                          23 02-JUL-18
       309 Jay
                                      123123425
                                                          26 27-DEC-18
       310 Akshay
                                     2162853638
                                                          17 24-MAY-16
10 rows selected.
```

Code snippet demonstrating Database connectivity and access:

```
import java.sql.Connection;
import java.sql.DriverManager;
public class sqlConnection {
      public static Connection databaseConnect() {
            Connection con1 = null;
            try {
                  Class.forName("oracle.jdbc.driver.OracleDriver");
                  con1=DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe","system","123");
                   return con1;
            }catch(Exception e) {
                  System.out.print(e);
                   return null;
            }
      }
}
```

Screenshots of UI Design:

(1). The welcome page

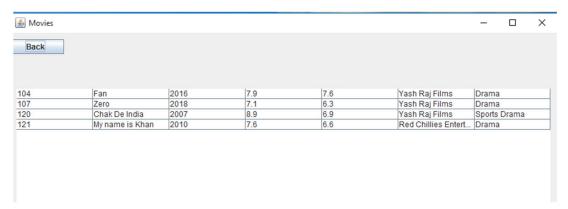


(2). The Movies Page:

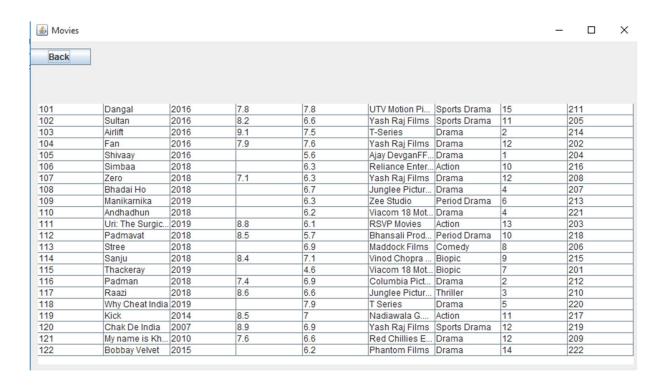
In the movies page the user can search for movies based on their name, actor name, genre or the year of release. For example, if a user wants to search for all the movies done by Shah Rukh Khan, then he can search it this way. The back button takes you to the welcome screen.



The output for the movie searched by the user.



Also, leaving the search box blank will list all the movies.

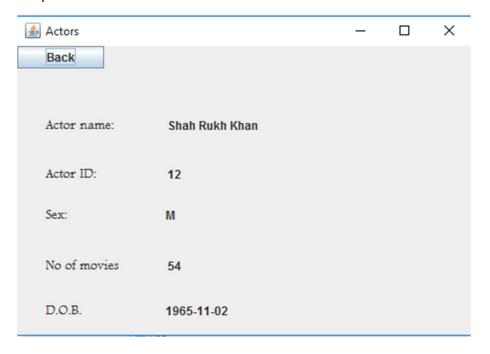


(3). The Actor Page:

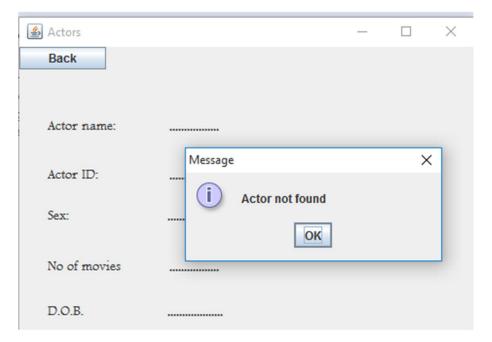
Here the user can search about actor info. The back button takes you to the welcome screen.



Output for the actor "Shah Rukh Khan" info.

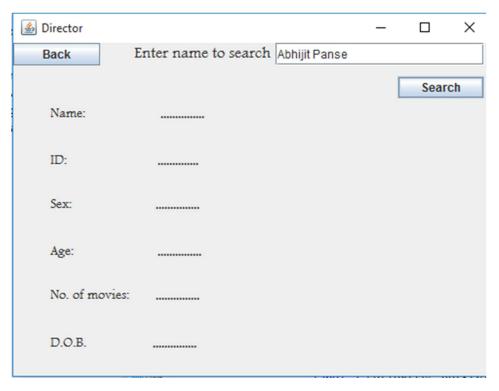


Entering an invalid name for the actor(not in database or empty) gives a pop up message.

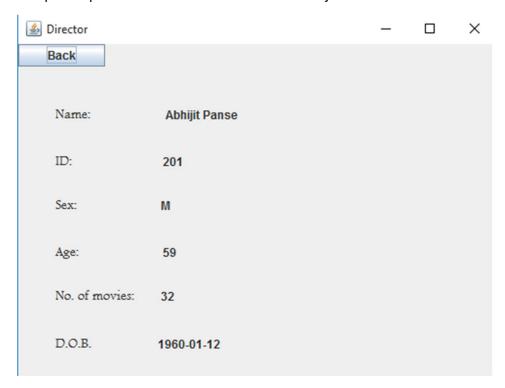


(3). The Director Page:

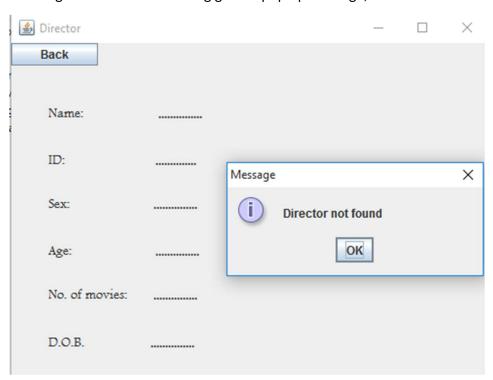
The user can search the info about a particular director here.



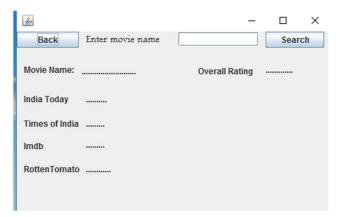
Sample output when searched for director "Abhijit Panse".



Entering an invalid search string gives a pop up message, like below:



(4). The Critics Rating Page:

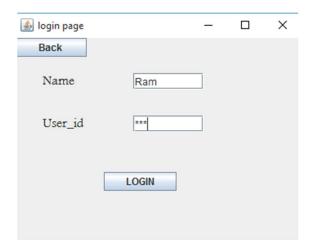


Output for the Critics Rating page when the user searches for the movie "Fan":



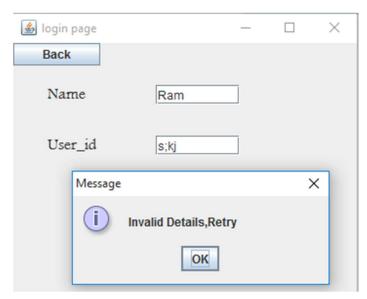
(5). The Rate Movie Page:

To rate a movie, the user first has to login.



Once the user id and password are verified, he will be directed to the rate movie page where first he enters the name of the movie where he rates the movie along with some additional comments if any.

Entering any invalid combo of name, user_id would lead to a pop up message, user won't be able to proceed to rate in such a case.



Following is how the rating page looks like. After entering the movie name, rating, and comments(optional) press enter rating to enter rating into the database. After successfully rating the said entry, the same opens again, allowing the user to rate another movies. Though one user can rate one movie atmost once. The switch user button allows to login as another user and the back button takes the user to the welcome page.



That sums up the mini project.

References:

- https://stackoverflow.com/
- https://www.tutorialspoint.com/
- http://www-mdp.eng.cam.ac.uk/web/CD/engapps/drawing/dia-manual.pdf
- https://www.geeksforgeeks.org/
- https://docs.oracle.com/javase/tutorial/uiswing/index.html
- https://www.javatpoint.com/java-swing