

PDPM IIITDM JABALPUR
CS201 Lab Exam November 13, 2019

Time: 3 hours

MM: 40

Note: Read all instructions carefully. You can refer to lab slides.

Let us consider a database which keeps track of information about movies, actors and directors. A movie is described by an identifier, a title, a year of release, a rating, and a director. A director may direct many movies. Actors and directors are described by an identifier and a name. An actor may play a role in several movies and in a movie we have several actors who play in. The rank attribute precise the actor rank (lead - 1 and support - 2) in the movie.

Details of all the movies in the database are as follows:

- 1) 3 Idiots (id M01) directed by Rajkumar Hirani (id D01) was released in year 2009 and have 8.4 rating.
- 2) Bahubali (id M02) directed by SS Rajmauli (id D02) was released in year 2015 and have 8.1 rating.
- 3) Titanic (id M03) directed by James Cameron (id D03) was released in year 1997 and have 7.8 rating.
- 4) Inception (id M04) directed by Christopher Nollan (id D04) was released in year 2010 and have 8.8 rating.
- 5) Avatar (id M05) directed by James Cameron (id D03) was released in year 2009 and have 7.8 rating.

Other details required for the database are:

- Amir Khan (id A01) and R Madhavan (id A04) acted in movie "3 idiots" and ranked 1 and 2, respectively.
- Kate Winslet (id A02) and Leonardo DiCaprio (id A03) acted in movie "Titanic" and both are ranked 1. Leonardo DiCaprio also acted in movie "Inception" as lead actor.
- In movie "Bahubali" Prabhas (id A05) and Rana Daggubati (id A06) acted with rank 1 and 2 respectively.
- Sam Worthington (id A07) acted in movie "Avatar" as lead actor.

(A) [16] Create the backend in MySQL for this database. Fill in all entries as per the description given.

(B) [12] Design a front end (in PHP) through which user can see all details of a movie selected by them.

(C) Write the following queries on this database:

- 1) [4] Give the id of movies released before 2010 or having actor's id A03 in their casting.
- 2) [4] Print the actors playing on at least two different movie titles. Give the id and name of the actors.
- 3) [4] Who are the main actors (rank equal to one) of movies released after 2000? Display id and name of the actors ordered by name.

You are supposed to save the syntax of the statements for table creation and queries in a file along with the snapshot of the existing tables. Also save the snapshot of all the forms designed. Save this zip file with your "rollno_ES" and give it to the TA assigned to you.