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**MOVIE SCHEDULING IN A MULTIPLEX MALL**

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## **PROBLEM STATEMENT:**

- To create a proper schedule for the movies in a multiplex mall depending on the number of screens available, the number of slots per day, and the movie where the number of screens available and the number of slots per day are predefined and the movie details are provided by the user.

- To assign the screens based on the priorities of the movies which depends on their success rate (number of tickets booked), cast weightage, and demand score.

## **INPUT PROVIDED BY THE USER:**

- Number of new Movies released this week
- Number of Movies already running
- Time slot and priority for a time slot (Daily)
- Number of seats unbooked for the movie already running (weekly)
- Cast (actor and actress), cast weightage, and movie demand score on a scale of 10.

## **PREDEFINED INPUT:**

- Slots on weekdays / screen: 3
- Slots on weekends / screen: 5
- Screens in Multiplex: 16
- Total Seats:  $16 \times 100 = 1600$

## **SAMPLE INPUT:**

New Movies Released: 3

Movies Already running: 2

Movie 1 name:

- 1.Actor name:
- 2.Actress name:
- 3.Director name:

Movie 2 name :

- 1.Actor name:
- 2.Actress name:
- 3.Director name:

.....

Seats unbooked for running movies-Movie 1: 100  
Seats unbooked for running movies-Movie 2: 150  
.....  
80 slots/day – 240 slots/week – 160 slots/weekend

### **SAMPLE OUTPUT:**

Schedule each screen and time slot for a week

Monday: Sc1[s1:movienam e, s2:, s3:]

...

...

Friday: Sc1[s1:movienam e, s2:, s3:]

Saturday: Sc1[s1:movienam e, s2:, s3:, s4:, s5:]

Sunday: Sc1[s1:movienam e, s2:, s3:, s4:, s5:]

### **TECHNIQUE OR IDEA TO SOLVE THE PROBLEM:**

- Getting the necessary input such as the number of new movies, or already running movies, the number of unsold tickets, etc. from the user.
- Computing success rate using the number of unsold tickets and demand score using the cast which are obtained from the user.
- Prioritizing the movies using the success ratio and demand score which are computed using the input provided and the conditions requested by the user.
- Creating the schedule by allocating the slots based on the priorities of the movies.
- Providing the schedule as the output to the user.

## **MODULES:**

### **DATA ENTRY In RDBMS - Subramanian T**

- Getting the necessary inputs from the user – New Movies, Already running movies, Cast, Director, Music Director, Movie Demand Score, Seats Unbooked, Time slot and priority for a time slot.
- Entering these inputs into a table in a Relational Database Management System using the connectivity.

### **PRIORITISING - Sudharsan K**

- Finding a formula to compute the priority of the new movie and the success rate of the already running movie based on the inputs
- The priority considers the Cast, Director and Demand Score of the movie.
- The actor, actress, director and music director are awarded points out of 10 based on their level (Each).
- The demand score on the scale of 10 and the movie is related on a scale of 100.
- Based on this rating the movies are prioritised.

### **ASSIGNING SCREENS - Sundaresan.V**

- Based on the priority order the screens are assigned suitably for the movies.
- The schedule is provided to the user as output.

### **DEVELOPING GUI - Subramanian T**

- If time permits the Graphical User Interface could be developed.

**The report ends here.**