Film Production Management System

Scenario Description:

A film production house is a dynamic hub where the entire process of making a movie comes together. The producer oversees the hiring of key professionals, such as directors, marketing teams, finance teams, and creative specialists like set designers and make-up artists. Directors manage the auditions and casting, while screenwriters craft the story. The creative team handles the visual elements, and the marketing team ensures the film reaches the right audience. Every department works together, from budgeting and writing to shooting and editing, all to bring a film from concept to screen.

Entities:

Producer (Strong Entity)

Director (Strong Entity)

Marketing (Strong Entity)

Screenwriters (Strong Entity)

Cast (Strong Entity)

Audition (Strong Entity)

Creative Team (Strong Entity)

Film (Strong Entity)

Finance Team (Strong Entity)

Attributes:

- Producer
 - o p id (Primary Key): single valued
 - o p_name: composite
 - o p dob: simple
 - o p age: derieved
 - o p phno: multivalued
 - o p email: mulltivalued
- Director
 - o d_id (Primary Key): single valued
 - o d_name: composite
 - o d_age: simple
 - o d_phno: multivalued
 - o d_email: multivalued
- Marketing
 - o m id (Primary Key): single valued

- o m phno: multivalued
- o m_budget: simple
- o m_timeframe: composite (start date, end date)
- Screenwriters
 - o sw_id (Primary Key): single valued
 - o sw_name: simple
 - o script_id: single valued
 - o script_name: simple
- Cast
 - o c_id (Primary Key): single valued
 - o c_name: simple
 - o c_role: multivalued
- Audition
 - o a_id (Primary Key): single valued
 - o a_venue: simple
 - o a_date: simple
 - o audtionee: composite.
- Creative Team
 - o Creative Team
 - Set makers
 - sm id(Primary Key): single valued
 - speciality: multivalued
 - Make-up artists & fashion designers
 - ma id(Primary Key): single valued
 - ma speciality: multivalued
 - fd speciality: multivalued
 - fd speciality: multivalued
 - Editors
 - ed id(Primary Key): single valued
 - ed speciality: multivalued
- Film
 - o f_id (Primary Key): single valued
 - o f_name: simple
 - o f_release_date: composite (day, month, year)
 - o f_length: simple
 - o f_language: multivalued
- Finance Team
 - \circ t_id (Primary Key): single valued
 - o t_phno: multivalued
 - o assigned_budget: simple

Relationship:

- 1. Producer Hires Director
- 2. Producer Hires Marketing team
- 3. Producer Hires Finance team

- 4. Producer **Hires** Creative team
- 5. Producer Hires Screen Writers
- 6. Producer **Produces** Film
- 7. Director **Directs** Film
- 8. Director Conducts Audition
- 9. Director Finalizes Cast
- 10. Cast **Acts For** Film
- 11. Marketing Markets Film
- 12. Finance Team Is Responsible for Budgeting
- 13. Screen Writers Writes for Film
- 14. Creative Team Works on Film

Cardinalities:

One Producer hires Many Directors.

One Producer hires One Marketing Team.

One Producer hires One Finance Team.

One Producer hires One Creative Team.

One Producer hires Many Screenwriters.

One Producer Produces One Film.

Many Directors Directs One Film.

Many Directors Conducts Many Auditions.

Many Directors Finalizes One Cast.

One Cast Acts for One Film.

One Marketing Markets One Film.

One Finance Team is responsible for budgeting One Film.

Many Screenwriters Write for One Film.

Many Creative Team Works on One Film.

ER Diagram:

