Film Production Management System

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
  - p_id (Primary Key): single valued
  - p_name: composite
  - p_dob: simple
  - p_age: derieved
  - p_phno: multivalued
  - p_email: mulltivalued
- Director
  - d_id (Primary Key): single valued
  - d_name: composite
  - d_age: simple
  - d_phno: multivalued
  - d_email: multivalued

- Marketing
  - m_id (Primary Key): single valued
  - m_phno: multivalued
  - m_budget: simple
  - m_timeframe: composite (start date, end date)
- Screenwriters
  - sw_id (Primary Key): single valued
  - sw_name: simple
  - script_id: single valued
  - script_name: simple
- Cast
  - c_id (Primary Key): single valued
  - 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
      - •   sm_speciality: multivalued
    - ▪   Make-up artists & fashion designers
      - •   ma_id: (Primary Key): single valued
      - •   ma_speciality: multivalued
      - •   fd_id: (Primary Key): single valued
      - •   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
  - o   fi_id (Primary Key): single valued
  - o   fi_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: