**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
  + c\_role: multivalued
* Audition
  + a\_id (Primary Key): single valued
  + a\_venue: simple
  + a\_date: simple
  + audtionee: composite.
* Creative Team
  + 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
  + f\_id (Primary Key): single valued
  + f\_name: simple
  + f\_release\_date: composite (day, month, year)
  + f\_length: simple
  + f\_language: multivalued
* Finance Team
  + fi\_id (Primary Key): single valued
  + fi\_phno: multivalued
  + 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:

