

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
 - 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
 - auditionee: 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.

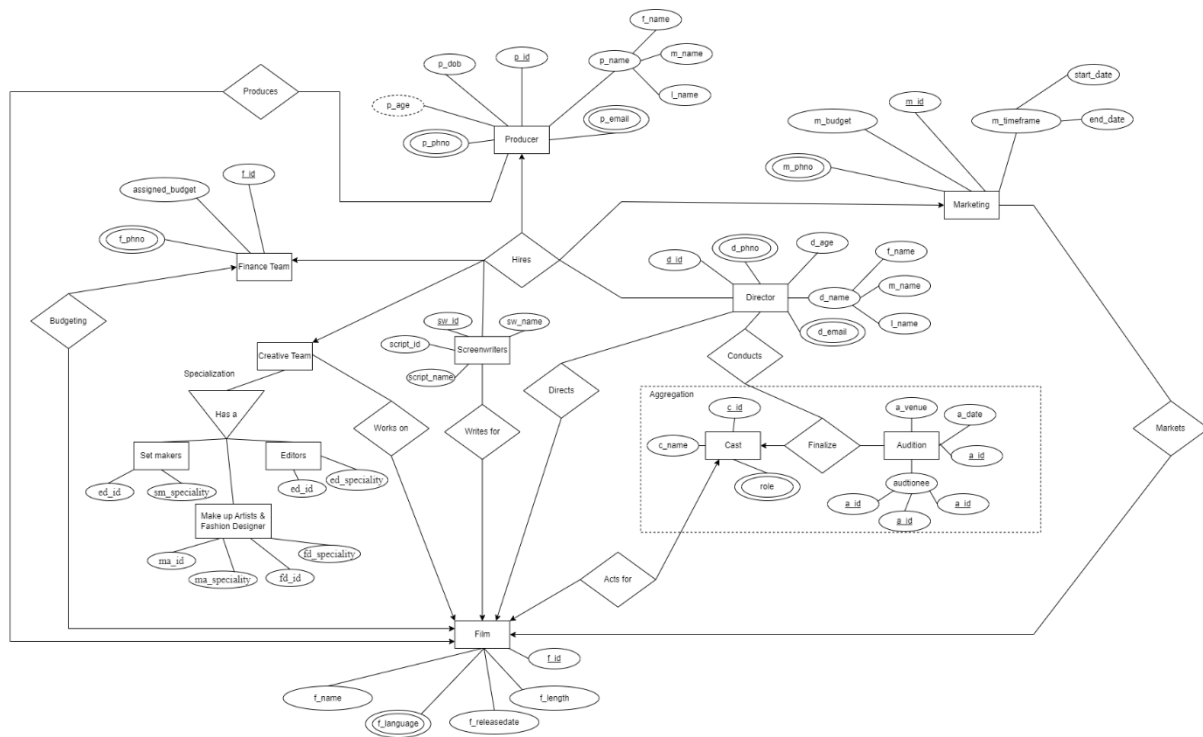
One Cast Acts for **One** Film.

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:

Relational Database**One** Producer hires **Many** Directors

p_id	f_name	m_name	l_name	p_age

p_id	p_email

p_id	p_phno

p_id	d_id

d_id	f_name	m_name	l_name	d_age

d_id	d_email

d_id	d_phno

One Producer hires **One** Marketing Team.

p_id	f_name	m_name	l_name	p_age

p_id	p_email

p_id	p_phno

p_id	m_id

m_id	m_budget	Start_date	Start_date

m_id	p_phno

One Producer hires **One** Finance Team.

p_id	f_name	m_name	l_name	p_age

p_id	p_email

p_id	p_phno

p_id	fi_id

fi_id	assigned_budget

p_id	p_phno

One Producer hires **One** Creative Team

p_id	f_name	m_name	l_name	p_age

p_id	p_email

p_id	p_phno

p_id	sm_id	ma_id	ed_id

Creative Team

Set Makers

sm_id	sm_speciality

Make-up artists & fashion designers

ma_id	ma_speciality	fd_id	fd_id

Editors

ed_id	ed_speciality

One Producer hires **Many** Screenwriters

p_id	f_name	m_name	l_name	p_age

p_id	p_email

p_id	p_phno

p_id	sw_id

sw_id	sw_name	script_id	script_id

One Producer Produces One Film

p_id	f_name	m_name	l_name	p_age

p_id	p_email	p_id	p_phno

p_id	f_id

f_id	f_name	f_release_date	f_length	f_language

Many Directors Directs One Film

d_id	f_name	m_name	l_name	d_age

d_id	d_email	d_id	d_phno

d_id	f_id

f_id	f_name	f_release_date	f_length	f_language

Many Directors Conducts Many Auditions

d_id	f_name	m_name	l_name	d_age

d_id	d_email	d_id	d_phno

d_id	a_id

a_id	a_venue	a_date

a_id	audtioneer

Many Directors Finalizes One Cast

d_id	f_name	m_name	l_name	d_age

d_id	d_email

d_id	d_phno

d_id	c_id

c_id	c_name	c_role

One Cast Acts for One Film

c_id	c_name	c_role

c_id	f_id

f_id	f_name	f_release_date	f_length	f_language

One Marketing Markets One Film

m_id	m_budget	Start_date	Start_date

m_id	p_phno

m_id	f_id

f_id	f_name	f_release_date	f_length	f_language

One Finance Team is responsible for budgeting One Film

fi_id	assigned_budget

fi_id	fi_phno

f_i_id	f_id

f_id	f_name	f_release_date	f_length	f_language

Many Screenwriters Write for One Film

sw_id	sw_name	script_id	script_id

sw_id	f_id

f_id	f_name	f_release_date	f_length	f_language

Many Creative Team Works on One Film

Creative Team

Set Makers

sm_id	sm_speciality

Make-up artists & fashion designers

ma_id	ma_speciality	fd_id	fd_id

Editors

ed_id	ed_id

sm_id	ma_id	ed_id	f_id

f_id	f_name	f_release_date	f_length	f_language