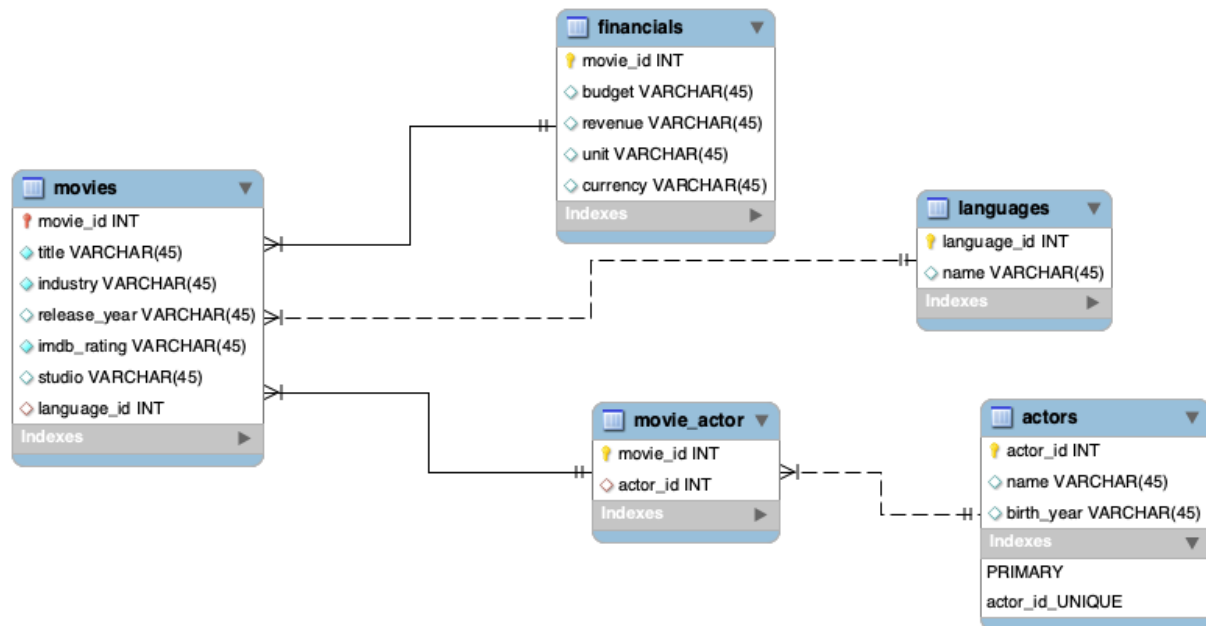


- Entity-Relationship Diagram showing tables normalized to 3rd Normal Form.



- Created SQL database schema for PDA (movies)
- Created tables and relations between the tables.

```

7
8 • ⊖ CREATE TABLE languages (
9     language_id INT NOT NULL,
10     Name VARCHAR(45) NOT NULL,
11     PRIMARY KEY (language_id));
12
13
14 • ⊖ CREATE TABLE financials (
15     movie_id INT NOT NULL,
16     budget VARCHAR(45) NOT NULL,
17     revenue VARCHAR(45) NOT NULL,
18     unit VARCHAR(45) NOT NULL,
19     currency VARCHAR(45) NOT NULL,
20     PRIMARY KEY (movie_id));
21

```

```

40 • CREATE TABLE movie_actor (
41     movie_id INT NOT NULL,
42     actor_id INT NOT NULL,
43     PRIMARY KEY (movie_id),
44     FOREIGN KEY (actor_id) REFERENCES
45     actors (Actor_id)
46 );
47
48 • CREATE TABLE movies (
49     movie_id INT NOT NULL,
50     title VARCHAR(45) NOT NULL,
51     industry VARCHAR(45) NOT NULL,
52     release_year YEAR NOT NULL,
53     imdb_rating VARCHAR(45) NOT NULL,
54     studio VARCHAR(45) NOT NULL,
55     language_id INT NOT NULL,
56     PRIMARY KEY (movie_id),
57     FOREIGN KEY (movie_id) REFERENCES
58     financials (movie_id),
59     FOREIGN KEY (language_id) REFERENCES
60     languages (language_id)
61 );

```

- Created movies table and the relation. Used `describe movies;` to show the result.

	Field	Type	Null	Key	
	movie_id	int	NO	PRI	
	title	varchar(45)	NO		
	industry	varchar(45)	NO		
	release_year	year	NO		
	imdb_rating	varchar(45)	NO		
	studio	varchar(45)	NO		
▶	language_id	int	NO	MUL	

- Created actors table and the relation. Used `describe actors;` to show the result

	Field	Type	Null	Key
►	actor_id	int	NO	PRI
	name	varchar(45)	YES	
	birth_year	varchar(45)	YES	

- Created languages table and the relation. Used `describe languages;` to show the result

	Field	Type	Null	Key
	language_id	int	NO	PRI
	name	varchar(45)	YES	

- Created financials table and the relation. Used `describe financials;` to show the result

	Field	Type	Null	Key
	movie_id	int	NO	PRI
	budget	varchar(45)	NO	
	revenue	varchar(45)	NO	
	unit	varchar(45)	NO	
	currency	varchar(45)	NO	

- Created movie_actor table and the relation. Used `describe movie_actor;` to show the result.

	Field	Type	Null	Key
	movie_id	int	NO	PRI
	actor_id	int	NO	MUL

- Used INSERT command to Insert the rows into the columns.

```

79 • INSERT INTO financials (movie_id, budget, revenue, unit, currency)
80 VALUES (101, 1, 12.5, 'Billions', 'INR'),
81 (102, 200, 954.8, 'Millions', 'USD'),
82 (103, 165, 644.8, 'Millions', 'USD'),
83 (104, 180, 854, 'Millions', 'USD'),
84 (105, 250, 670, 'Millions', 'USD');
85
86 • SELECT * from financials;

```

0% 26:86 1 error found

result Grid Filter Rows: Search Edit: Export/Import:

movie_id	budget	revenue	unit	currency
101	1	12.5	Billions	INR
102	200	954.8	Millions	USD
103	165	644.8	Millions	USD
104	180	854	Millions	USD
105	250	670	Millions	USD
NULL	NULL	NULL	NULL	NULL

- Inserted rows into actors table and below is the query.

```

88 • INSERT INTO actors (actor_id, name, birth_year)
89 VALUES (50, 'Yash', '1986'),
90 (51, 'Sanjay Dutt', '1959'),
91 (52, 'Benedict Cumberbatch', '1976'),
92 (53, 'Elizabeth Olsen', '1989'),
93 (54, 'Chris Hemsworth', '1983');
94
95 • SELECT * from actors;
96

```

0% 1:96 1 error found

result Grid Filter Rows: Search Edit: Export/Import:

actor_id	name	birth_year
50	Yash	1986
51	Sanjay Dutt	1959
52	Benedict Cumberbatch	1976
53	Elizabeth Olsen	1989
54	Chris Hemsworth	1983
NULL	NULL	NULL

- Inserted rows into languages table and below is the query.

```
97 • INSERT INTO languages (language_id, name)
98 VALUES (1, 'Hindi'),
99          (2, 'Telugu'),
100         (3, 'Kannada'),
101         (4, 'Tamil'),
102         (5, 'English');
103
104 • SELECT * from languages;
```

00% 25:104 1 error found

Result Grid Filter Rows: Search Edit:

	language_id	name
▶	1	Hindi
□	2	Telugu
□	3	Kannada
□	4	Tamil
□	5	English