**Actors**((actor\_first\_name, actor\_last\_name), birth\_day)

**Films**(film\_name, rating, profit)

**Directors**(director\_first\_name, director\_last\_name)

**Achievements**(*ach\_name)*

**Genres**(genre\_name, rating)

**Country**(country\_name)

Roles((actor\_first\_name,actor\_last\_name,film\_name), role\_name)

Roles[(actor\_first\_name,actor\_last\_name)] ⊆ Actors[(actor\_first\_name,actor\_last\_name)]

Roles[film\_name] ⊆ Films[film\_name]

Birth((actor\_first\_name, actor\_last\_name), country\_name)

Birth[(actor\_first\_name,actor\_last\_name)] ⊆ Actors[(actor\_first\_name,actor\_last\_name)]

Birth[actor\_last\_name] ⊆ Actors[actor\_last\_name]

Birth[country\_name] ⊆ Country[country\_name]

ActorHas((actor\_first\_name, actor\_last\_name), ach\_name) ActorHas[(actor\_first\_name,actor\_last\_name)] ⊆ Actors[(actor\_first\_name,actor\_last\_name)]

ActorHas[ach\_name] ⊆ Achievements[ach\_name]

DirectorHas(director\_first\_name, director\_last\_name, ach\_name)

DirectorHas[(director\_first\_name,director\_last\_name)] ⊆ Directors[(actor\_first\_name,director\_last\_name)]

DirectorHas[(director\_first\_name,director\_last\_name)] ⊆ Directors[(actor\_first\_name,director\_last\_name)]

DirectorHas[ach\_name] ⊆ Achievements[ach\_name]

CreatedBy(film\_name, director\_first\_name, director\_last\_name)

CreatedBy[film\_name] ⊆ Films[film\_name]

CreatedBy[(director\_first\_name,director\_last\_name)] ⊆ Directors[(actor\_first\_name,director\_last\_name)]

WasFilmed(film\_name, country\_name)

WasFilmed[film\_name] ⊆ Films[film\_name]

WasFilmed[country\_name] ⊆ Country[country\_name]

HasGenre(film\_name, genre\_name)

HasGenre[film\_name] ⊆ Films[film\_name]

HasGenre[genre\_name] ⊆ Genres[genre\_name]

(View)Actors\_view(actor\_first\_name,actor\_last\_name,film\_name,role\_name,ach\_name,country\_name,age)

(View)

Recap\_films\_view(film\_name,profit\_raiting,genre\_name,director\_first\_name,director\_last\_name,country\_name)

DROP VIEW IF EXISTS Actors\_view;

DROP VIEW IF EXISTS RecapFilms\_view;

DROP TABLE IF EXISTS ActorHas;

DROP TABLE IF EXISTS DirectorHas;

DROP TABLE IF EXISTS HasGenre;

DROP TABLE IF EXISTS Genres;

DROP TABLE IF EXISTS Roles;

DROP TABLE IF EXISTS Birth;

DROP TABLE IF EXISTS CreatedBy;

DROP TABLE IF EXISTS WasFilmed;

DROP TABLE IF EXISTS HasGenre;

DROP TABLE IF EXISTS Achievements;

DROP TABLE IF EXISTS Actors;

DROP TABLE IF EXISTS Films;

DROP TABLE IF EXISTS Directors;

DROP TABLE IF EXISTS Country;

PRAGMA FOREIGN\_KEYS=ON;

CREATE TABLE Actors (

actor\_first\_name TEXT NOT NULL,

actor\_last\_name TEXT NOT NULL,

birth\_date DATE NOT NULL,

CONSTRAINT pk1\_actors PRIMARY KEY (actor\_first\_name, actor\_last\_name)

);

CREATE TABLE Films (

film\_name TEXT NOT NULL,

rating FLOAT NOT NULL,

profit INTEGER NOT NULL,

CONSTRAINT pk1\_films PRIMARY KEY (film\_name)

);

CREATE TABLE Directors (

director\_first\_name TEXT NOT NULL,

director\_last\_name TEXT NOT NULL,

CONSTRAINT pk1\_directors PRIMARY KEY

(director\_first\_name, director\_last\_name)

);

CREATE TABLE Country(

country\_name TEXT NOT NULL,

CONSTRAINT pk1\_country PRIMARY KEY (country\_name)

);

CREATE TABLE Genres (

genre\_name TEXT NOT NULL,

rating FLOAT,

CONSTRAINT pk1\_genres PRIMARY KEY (genre\_name)

);

CREATE TABLE Roles(

actor\_first\_name TEXT NOT NULL,

actor\_last\_name TEXT NOT NULL,

film\_name TEXT NOT NULL,

role\_name TEXT NOT NULL,

CONSTRAINT pk1\_roles PRIMARY KEY

(actor\_first\_name, actor\_last\_name, film\_name)

CONSTRAINT fk1\_roles FOREIGN KEY (actor\_first\_name,actor\_last\_name)

REFERENCES Actors(actor\_first\_name,actor\_last\_name)

CONSTRAINT fk2\_roles FOREIGN KEY (film\_name)

REFERENCES Films(film\_name)

);

CREATE TABLE Birth(

actor\_first\_name TEXT NOT NULL,

actor\_last\_name TEXT NOT NULL,

country\_name TEXT NOT NULL,

CONSTRAINT pk1\_birth PRIMARY KEY

(actor\_first\_name, actor\_last\_name, country\_name)

CONSTRAINT fk1\_birth FOREIGN KEY (actor\_first\_name,actor\_last\_name)

REFERENCES Actors(actor\_first\_name,actor\_last\_name),

CONSTRAINT fk2\_birth FOREIGN KEY (country\_name)

REFERENCES Country(country\_name)

);

CREATE TABLE ActorHas(

actor\_first\_name TEXT NOT NULL,

actor\_last\_name TEXT NOT NULL,

ach\_name TEXT NOT NULL,

CONSTRAINT pk1\_actorhas PRIMARY KEY

(actor\_first\_name, actor\_last\_name, ach\_name),

CONSTRAINT fk1\_actorhas FOREIGN KEY (actor\_first\_name,actor\_last\_name)

REFERENCES Actors(actor\_first\_name,actor\_last\_name),

CONSTRAINT fk2\_actorhas FOREIGN KEY (ach\_name)

REFERENCES Achievements(ach\_name)

);

CREATE TABLE DirectorHas(

director\_first\_name TEXT NOT NULL,

director\_last\_name TEXT NOT NULL,

ach\_name TEXT NOT NULL,

CONSTRAINT pk1\_directorhas PRIMARY KEY

(director\_first\_name, director\_last\_name, ach\_name)

CONSTRAINT fk1\_directorhas FOREIGN KEY (director\_first\_name,director\_last\_name)

REFERENCES Directors(director\_first\_name,director\_last\_name),

CONSTRAINT fk2\_directorhas FOREIGN KEY (ach\_name)

REFERENCES Achievements(ach\_name)

);

CREATE TABLE CreatedBy(

film\_name TEXT NOT NULL,

director\_first\_name TEXT NOT NULL,

director\_last\_name TEXT NOT NULL,

CONSTRAINT pk1\_createdby PRIMARY KEY

(film\_name),

CONSTRAINT fk1\_createdby FOREIGN KEY (film\_name)

REFERENCES Films(film\_name),

CONSTRAINT fk2\_createdby FOREIGN KEY (director\_first\_name,director\_last\_name)

REFERENCES Directors(director\_first\_name,director\_last\_name)

);

CREATE TABLE WasFilmed(

film\_name TEXT NOT NULL,

country\_name TEXT NOT NULL,

CONSTRAINT pk1\_createdby PRIMARY KEY

(film\_name, country\_name)

CONSTRAINT fk1\_wasfilmed FOREIGN KEY (film\_name)

REFERENCES Films(film\_name)

CONSTRAINT fk2\_wasfilmed FOREIGN KEY (country\_name)

REFERENCES Country(country\_name)

);

CREATE TABLE HasGenre(

film\_name TEXT NOT NULL,

genre\_name TEXT NOT NULL,

CONSTRAINT pk1\_hasgenre PRIMARY KEY

(film\_name,genre\_name),

CONSTRAINT fk1\_hasgenre FOREIGN KEY (film\_name)

REFERENCES Films(film\_name),

CONSTRAINT fk2\_hasgenre FOREIGN KEY (genre\_name)

REFERENCES Genres(genre\_name));

CREATE TABLE Achievements(

ach\_name TEXT NOT NULL,

CONSTRAINT pk1\_achievement PRIMARY KEY (ach\_name)

);

CREATE VIEW [Actors\_view] AS

SELECT actor\_first\_name,actor\_last\_name,film\_name,role\_name,ach\_name,country\_name,strftime('%Y','now')- strftime('%Y',birth\_date) AS age

FROM Roles JOIN Birth USING(actor\_first\_name,actor\_last\_name) JOIN Actors USING(actor\_first\_name,actor\_last\_name) JOIN ActorHas USING (actor\_first\_name,actor\_last\_name);

CREATE VIEW [RecapFilms\_view] AS

SELECT film\_name,profit,rating,genre\_name,director\_first\_name,director\_last\_name,country\_name

FROM Films JOIN HasGenre USING(film\_name) JOIN CreatedBy USING(film\_name) JOIN WasFilmed USING (film\_name);