-- 创建出品公司表

CREATE TABLE Production\_Company (

    production\_company\_id INT AUTO\_INCREMENT PRIMARY KEY,

    name VARCHAR(255) NOT NULL,

    city VARCHAR(255) NOT NULL

);

-- 创建电影表

CREATE TABLE Movie (

    movie\_id INT AUTO\_INCREMENT PRIMARY KEY,

    title VARCHAR(255) NOT NULL,

    release\_year INT,

    duration INT,  -- 时长，单位为分钟

    synopsis TEXT,

    production\_company\_id INT,

    FOREIGN KEY (production\_company\_id) REFERENCES Production\_Company(production\_company\_id) ON DELETE SET NULL

);

-- 创建导演表

CREATE TABLE Director (

    director\_id INT AUTO\_INCREMENT PRIMARY KEY,

    name VARCHAR(255) NOT NULL,

    dob DATE

);

-- 创建演员表

CREATE TABLE Actor (

    actor\_id INT AUTO\_INCREMENT PRIMARY KEY,

    name VARCHAR(255) NOT NULL,

    dob DATE

);

-- 创建电影类别表

CREATE TABLE Genre (

    genre\_id INT AUTO\_INCREMENT PRIMARY KEY,

    name VARCHAR(255) NOT NULL

);

-- 创建电影与类别的关联表（多对多关系）

CREATE TABLE Movie\_Genre (

    movie\_id INT,

    genre\_id INT,

    PRIMARY KEY (movie\_id, genre\_id),

    FOREIGN KEY (movie\_id) REFERENCES Movie(movie\_id) ON DELETE CASCADE,

    FOREIGN KEY (genre\_id) REFERENCES Genre(genre\_id) ON DELETE CASCADE

);

-- 创建电影与导演的关联表（多对多关系）

CREATE TABLE Movie\_Director (

    movie\_id INT,

    director\_id INT,

    PRIMARY KEY (movie\_id, director\_id),

    FOREIGN KEY (movie\_id) REFERENCES Movie(movie\_id) ON DELETE CASCADE,

    FOREIGN KEY (director\_id) REFERENCES Director(director\_id) ON DELETE CASCADE

);

-- 创建角色表（多对多关系，通过电影与演员的关系）

CREATE TABLE Role (

    role\_id INT AUTO\_INCREMENT PRIMARY KEY,

    role\_name VARCHAR(255) NOT NULL,

    actor\_id INT,

    movie\_id INT,

    FOREIGN KEY (actor\_id) REFERENCES Actor(actor\_id) ON DELETE CASCADE,

    FOREIGN KEY (movie\_id) REFERENCES Movie(movie\_id) ON DELETE CASCADE

);

-- 创建旁白表（一对多关系，电影与旁白）

CREATE TABLE Narration (

    narration\_id INT AUTO\_INCREMENT PRIMARY KEY,

    content TEXT NOT NULL,

    actor\_id INT,

    movie\_id INT,

    FOREIGN KEY (actor\_id) REFERENCES Actor(actor\_id) ON DELETE SET NULL,

    FOREIGN KEY (movie\_id) REFERENCES Movie(movie\_id) ON DELETE CASCADE

);