

Q3

```
CREATE TABLE Actor
(name CHAR(50) PRIMARY KEY,
 address CHAR(50));
```

```
CREATE TABLE Movie
(title CHAR(50),
 year INTEGER,
 length FLOAT,
 genre CHAR(50),
 Primary Key(title, year));
```

```
CREATE TABLE Cartoon
(title CHAR(50),
 year INTEGER
 Primary Key(title, year),
 FOREIGN KEY(title,year) REFERENCES Movie(title, year));           // Using approach 1
```

```
CREATE TABLE Contract
(actor_name CHAR(50),
 movie_title CHAR(50)
 movie_year INTEGER,
 date INTEGER,
 salary FLOAT
 Primary Key(actor_name, movie_title, movie_year, date),
 FOREIGN KEY(actor_name) REFERENCES Actor(name),
 FOREIGN KEY(movie_title, movie_year) REFERENCES Movie(title, year));
//date represent as int by (yyyymmdd)
```

```
CREATE TABLE StartsIn
(actor_name CHAR(50) PRIMARY KEY REFERENCES Actor(name),
 movie_title CHAR(50)
 movie_year INTEGER,
 FOREIGN KEY(movie_title, movie_year) REFERENCES Movie(title, year));
```

```
CREATE TABLE Voices
(actor_name CHAR(50) REFERENCES Actor(name),
 title CHAR(50),
 year INTEGER,
 Primary Key(actor_name, title, year),
 FOREIGN KEY(title, year) REFERENCES Cartoon(title, year));
```

```
CREATE TABLE ActorOf
(contract_date INTEGER PRIMARY KEY REFERENCES Contract(date),
role CHAR(50),
actor_name CHAR(50) REFERENCES Actor(name));
// this table is construct because there is an attribute on double diamond.
```