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.