DDL:

CREATE TABLE ratings (

rating VARCHAR(10) NOT NULL,

CONSTRAINT ratings PRIMARY KEY(rating)

);

CREATE TABLE movies (

title VARCHAR(220) NOT NULL,

yearReleased INT NOT NULL,

distributor VARCHAR(220) NOT NULL,

rating VARCHAR(10) NOT NULL,

CONSTRAINT movies PRIMARY KEY(title, yearReleased, distributor, rating),

CONSTRAINT rating FOREIGN KEY(rating)

REFERENCES ratings(rating)

);

CREATE TABLE genre (

genre VARCHAR(220) NOT NULL,

CONSTRAINT genre PRIMARY KEY(genre)

);

CREATE TABLE MovieInfo (

title VARCHAR(220) NOT NULL,

yearReleased INT NOT NULL,

distributor VARCHAR(220) NOT NULL,

rating VARCHAR(10) NOT NULL,

genreName VARCHAR(220) NOT NULL,

CONSTRAINT MovieInfo PRIMARY KEY(title, yearReleased, genreName),

CONSTRAINT MovieInfo\_1 FOREIGN KEY(title, yearReleased, distributor, rating)

REFERENCES movies(title, yearReleased, distributor, rating),

CONSTRAINT genre\_1 FOREIGN KEY(genreName)

REFERENCES genre(genre)

);

DML:

CREATE TABLE ratings (

rating VARCHAR(10) NOT NULL,

CONSTRAINT ratings PRIMARY KEY(rating)

);

CREATE TABLE movies (

title VARCHAR(220) NOT NULL,

yearReleased INT NOT NULL,

distributor VARCHAR(220) NOT NULL,

rating VARCHAR(10) NOT NULL,

CONSTRAINT movies PRIMARY KEY(title, yearReleased, distributor, rating),

CONSTRAINT rating FOREIGN KEY(rating)

REFERENCES ratings(rating)

);

CREATE TABLE genre (

genre VARCHAR(220) NOT NULL,

CONSTRAINT genre PRIMARY KEY(genre)

);

CREATE TABLE MovieInfo (

title VARCHAR(220) NOT NULL,

yearReleased INT NOT NULL,

distributor VARCHAR(220) NOT NULL,

rating VARCHAR(10) NOT NULL,

genreName VARCHAR(220) NOT NULL,

CONSTRAINT MovieInfo PRIMARY KEY(title, yearReleased, genreName),

CONSTRAINT MovieInfo\_1 FOREIGN KEY(title, yearReleased, distributor, rating)

REFERENCES movies(title, yearReleased, distributor, rating),

CONSTRAINT genre\_1 FOREIGN KEY(genreName)

REFERENCES genre(genre)

);

SQL Queries:

select count(\*),GENRENAME  
from "MOVIEINFO"  
group by GENRENAME;



select count(\*), TITLE  
from "MOVIEINFO"  
group by TITLE



select count(distinct TITLE), RATINGS.RATING   
from RATINGS left join MOVIEINFO M  
on RATINGS.RATING = M.RATING   
group by RATINGS.RATING;

