Amelia beckham 10/31/13

dbmgmt Normalization HW 2

ER table

|  |
| --- |
| People  Aid did pid |

|  |
| --- |
| Directors  Did  Firstname  Lastname  Filmschool  Address  Anniversary |
|  |

|  |
| --- |
| Actors  Aid firstname lastname height weight hair and eye color birthday anniversary |

|  |
| --- |
| Movies  Aid did title yearreleased foreignsales domesticsales and dvd sales |

-SQL Scripts

The tables

CREATE TABLE actors (

aid char(4) not null,

firstname varchar(16),

lastname varchar(16),

haircolor varchar(20),

eyecolor varchar(20),

height char(4),

weight char(4),

pid char(4) references people(pid),

screenactorsguildanniversary timestamp,

primary key(aid)

); alter table actors add birthday date

CREATE TABLE directors (

did char(4) not null,

firstName varchar(16),

lastName varchar(16),

address varchar(20),

filmschool varchar(20),

pid char(4)references people(pid),

directorsguildanniversary timestamp,

primary key(did)

);

CREATE TABLE movies (

title varchar(30) not null,

yearreleased timestamp,

aid char(4) not null references actors(aid),

did char(4) not null references directors(did),

domesticboxofficessalesinmillionsUSD integer,

foreignboxofficessalesinmillionsUSD integer,

primary key(title)

);

alter table movies add DVDsalesinmillionsUSD integer

CREATE TABLE people (

pid varchar(4) not null,

aid char(4),

did char(4),

primary key(pid)

);

The insert statements

People a\_na or a\_\_a means not an actor and d\_na and d\_\_a ,means not an director.

INSERT INTO people( pid,aid,did)

VALUES('p001', 'a001', 'd001');--quentin taratino

INSERT INTO people( pid,aid,did)

VALUES('p002', 'a002', 'd0na');--clint eastwood

INSERT INTO people( pid,aid,did)

VALUES('p003', 'a003', 'd1na');--robert deniro

INSERT INTO people( pid,aid,did)

VALUES('p004', 'a004', 'd2na');-- brad pitt

INSERT INTO people( pid,aid,did)

VALUES('p005', 'a005', 'd3na');-- gwyneth palthrow

INSERT INTO people( pid,aid,did)

VALUES('p006', 'a006', 'd4na');--gene hackman

INSERT INTO people( pid,aid,did)

VALUES('p007', 'a007', 'd5na');--sean connery

INSERT INTO people( pid,aid,did)

VALUES('p008', 'a008', 'd6na');--samuel l jackson

INSERT INTO people( pid,aid,did)

VALUES('p009', 'a009', 'd7na');-- david tennant

INSERT INTO people( pid,aid,did)

VALUES('p010', 'a010', 'd8na');-- bill murray

INSERT INTO people( pid,aid,did)

VALUES('p011', 'a011', 'd9na');-- kevin bacon

INSERT INTO people( pid,aid,did)

VALUES('p012', 'a012', 'd10a');-- jack nicholson

INSERT INTO people( pid,aid,did)

VALUES('p013', 'a013', 'd013');--woody allen

INSERT INTO people( pid,aid,did)

VALUES('p014', 'a014', 'd11a');-- robert downy jr

INSERT INTO people( pid,aid,did)

VALUES('p015', 'a015', 'd12a');-- cary grant

INSERT INTO people( pid,aid,did)

VALUES('p016', 'a016', 'd13a');-- christain bale

INSERT INTO people( pid,aid,did)

VALUES('p017', 'a017', 'd14a');-- nicholas cage

INSERT INTO people( pid,aid,did)

VALUES('p018', 'a018', 'd15a');-- kyle maclachlan

------directors-------------------------

INSERT INTO people( pid,aid,did)

VALUES('p019', 'a0na', 'd002');--guy hamilton

INSERT INTO people( pid,aid,did)

VALUES('p020', 'a1na', 'd003');--david siegel

INSERT INTO people( pid,aid,did)

VALUES('p021', 'a2na', 'd004');--martin scorsese

INSERT INTO people( pid,aid,did)

VALUES('p022', 'a3na', 'd005');--david fincher

INSERT INTO people( pid,aid,did)

VALUES('p023', 'a4na', 'd006');--wes anderson

INSERT INTO people( pid,aid,did)

VALUES('p024', 'a5na', 'd007');--william friedkin

INSERT INTO people( pid,aid,did)

VALUES('p025', 'a6na', 'd008');--chris ellis

INSERT INTO people( pid,aid,did)

VALUES('p026', 'a7na', 'd009');--chris sanders

INSERT INTO people( pid,aid,did)

VALUES('p027', 'a8na', 'd010');-- dean debois

INSERT INTO people( pid,aid,did)

VALUES('p028', 'a9na', 'd011');--sophia coppola

INSERT INTO people( pid,aid,did)

VALUES('p029', 'a10a', 'd012');--herbert ross

INSERT INTO people( pid,aid,did)

VALUES('p030', 'a11a', 'd013');--stanley kubrick

INSERT INTO people( pid,aid,did)

VALUES('p031', 'a12a', 'd014');--jon foureau

INSERT INTO people( pid,aid,did)

VALUES('p032', 'a13a', 'd015');--frank capra

INSERT INTO people( pid,aid,did)

VALUES('p033', 'a14a', 'd016');--brad anderson

INSERT INTO people( pid,aid,did)

VALUES('p034', 'a15a', 'd017');--neil labute

INSERT INTO people( pid,aid,did)

VALUES('p035', 'a16a', 'd018');--david lynch

select \* from people;

INSERT INTO people( aid ,pid ,did)

VALUES('a009', 'p009', 'd16a');

INSERT INTO people( aid ,pid ,did)

VALUES('a012', 'p012', 'd17a');

----actors----

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a001', 'Quentin', 'Tarantino','brown','brown','5','150','p001','1987-02-12');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a002', 'Clint', 'Eastwood','white','blue','5','130','p002','1954-06-01','1930-05-31');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a003', 'Robert', 'DeNiro','grey','brown','4','180','p003','1963-12-15','1943-08-17');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a004', 'Brad', 'Pitt','blond','blue','5','152','p004','1987-01-01','1963-12-18');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a005', 'Gwyneth', 'Paltrow','blond','blue','6','167','p005','1991-05-06','1972-09-27');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a006', 'Gene', 'Hackman','brown','brown','6','178','p006','1956-07-18','1930-01-30');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a007', 'Sean', 'Connery','white','brown','6','120','p007','1953-01-15','1930-08-25');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a008', 'SamuelL', 'Jackson','bald','brown','6','157','p008','1972-12-12','1948-12-21');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a009', 'David', 'Tennant','brown','brown','6','149','p009','1990-07-21','1971-04-18');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a010', 'Bill', 'Murrary','brown','brown','5','146','p010','1974-08-10','1950-09-21');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a011', 'Kevin', 'Bacon','brown','blue','5','135','p011','1978-10-31','1958-07-08'

);

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a012', 'Jack', 'Nichloson','brown','blue','4','125','p012','1958-11-12','1937-04-22');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a013', 'Woody', 'Allen','grey','grey','4','117','p013','1969-05-05','1935-12-01');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a014', 'Robert', 'DownyJr','brown','brown','4','199','p014','1983-01-01','1965-04-04');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a015', 'Cary', 'Grant','brown','brown','6','200','p015','1931-03-03','1904-01-18');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a016', 'Christian', 'Bale','brown','brown','5','219','p016','1986-05-07','1974-01-30');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a017', 'Nicholas', 'Cage','brown','blue','5','123','p017','1982-07-10','1964-01-07');

INSERT INTO actors( aid ,firstname,lastname,haircolor,eyecolor,height,weight,pid ,screenactorsguildanniversary,birthday)

VALUES('a018', 'Kyle', 'MacLachlan','brown','brown','6','163','p018','1982-10-10','1959-02-22');

Directors

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d001', 'Quentin', 'Taratino','123 MaybreakDB Tpke','none','p001','1987-10-15');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d002', 'Guy', 'Hamilton','007 Bound Lane','none','p019','1978-09-13');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d003', 'Donald', 'Siegel','124 Smith Road','Beaux Arts','p020','1945-01-21');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d004', 'Martin', 'Scorsese','147 Drive Lane','NYU','p021','1963-07-13');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d005', 'David', 'Fincher','459 Coz St','Film School','p022','1987-10-14');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d006', 'Wes', 'Anderson','785 Artfilm Way','none','p023','1996-07-05');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d007', 'William', 'Friedkin','125 Brow Lane','none','p024','1971-01-24');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d008', 'Chris', 'Ellis','258 Vine Road','none','p026','1978-09-21');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d009', 'Dean', 'DeBois','148 Jon Lane','CIA','p027','2006-12-14');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d010', 'Sofia', 'Coppola','777 Rich Lane','Mills and CIA','p028','1988-06-16');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d011', 'Herbert', 'Ross','198 Rand Road','none','p029','1995-07-31');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d014', 'Stanley', 'Kubrick','131 Symmentry Street','CCNY','p030','1951-11-11');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d013', 'Woody', 'Allen','154 Creeper','CCNY','p013','1965-07-19');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d012', 'Jon', 'Farreau','555 Sue Lane','Queens COllege','p031','2001-04-10');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d015', 'Frank', 'Capra','1927 Talkie','CIT','p032','1915-02-14');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d016', 'Brad', 'Anderson','278 Mental Drive','Bourdoin College','p033','1998-03-22');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d017', 'Neil', 'LaBite','398 Hill Cliff Road','BYC','p034','1992-07-23');

INSERT INTO directors( did ,firstName,lastName,address,filmschool,pid ,directorsguildanniversary)

VALUES('d018', 'David', 'Lynch','874 Weirdo Lane','Cooper Union','p035','1966-12-12');

movies

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Gold Finger', '1964-05-18', 'a007','d002',124,132,10);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Pulp Fiction', '1994-04-12', 'a001','d001',213,500,11);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Drity Harry', '1971-02-04', 'a002','d003',35,4,5);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Taxi Driver', '1976-12-25', 'a003','d004',28,6,14);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Fight Club', '1999-09-10', 'a004','d005',100,60,41);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('The Royal Tennenbaums', '2001-06-12', 'a005','d006',71,52,2);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('The French Connection', '1971-02-10', 'a006','d007',126,156,1);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Snakes on a Plane', '2006-05-14', 'a008','d008',62,59,500);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('How to Train Your Dragon', '2010-10-12', 'a009','d009',494,323,660);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('How to Train Your Dragon', '2010-10-12', 'a009','d010',494,323,660);- 0 instead of o to keep uniqueness

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Lost in Translation', '2003-05-07', 'a010','d011',119,125,100);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Footloose', '1984-07-18', 'a011','d012',80,92,35);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('The Shining', '1980-10-31', 'a012','d014',44,500,75);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Annie Hall', '1977-11-15', 'a013','d013',38,14,2);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Iron Man', '2008-12-24', 'a014','d012',585,661,300);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Arsenic and Old Lace', '1944-05-17', 'a015','d015',1,2,1);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('The Machinist', '2004-10-19', 'a016','d016',8,16,5);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('The Wicker Man', '2006-07-25', 'a017','d017',38,999,999);

INSERT INTO movies(title , yearreleased,aid,did,domesticboxofficessalesinmillionsUSD, foreignboxofficessalesinmillionsUSD,DVDsalesinmillionsUSD )

VALUES('Blue Velvet', '1986-04-12', 'a018','d018',8,12,13);

Functional Dependencies

For actors

Firstname depends on lastname

Height depends on weight

For directors

Firstname depends on Lastname

For movies

There are none, they are all independent of one another

For people

Aid depends on the table actors

Did depends on the table directors

Query for Sean Connery

Select firstname,lastname

From directors

Where did in (Select did

Form movies

Where aid in (Select aid

Form actors

Where firstname=’Sean’ and lastname=’Connery’))