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1) E / R Diagram is at the end...
DROP TABLE IF EXISTS guild_winners;
DROP TABLE IF EXISTS directors;
DROP TABLE IF EXISTS actors;
DROP TABLE IF EXISTS actors_in_movies;
DROP TABLE IF EXISTS directors_in_movies;
DROP TABLE IF EXISTS movies;
DROP TABLE IF EXISTS people;
-- People --
CREATE TABLE people (
pid
        char(4) not null,
first_name text,
last_name text,
DOB_YYYY_MM_DD
                         date,
primary key(pid)
);
-- Actors --
CREATE TABLE actors (
aid
          char(3) not null references people(pid),
hair_color text,
eye_color
             text,
height_inches integer,
weight_lbs integer,
primary key(aid)
);
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-- Directors --
CREATE TABLE directors (
did
            char(3) not null references people(pid),
film_school
spouse_first_name text,
spouse_last_name text,
primary key(did)
);
-- Guild Winners --
CREATE TABLE guild_winners (
pid
         char(3) not null references people(pid),
year_won integer,
as_star boolean,
as_director boolean,
primary key(pid)
);
-- Movies--
CREATE TABLE movies (
mid
             char(5) not null,
name
              text,
                integer,
year_released
primary key(mid)
);
-- Actors_in_movies--
CREATE TABLE actors_in_movies (
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pid
           char(3) not null references people(pid),
 mid
            char(3) not null references movies(mid),
mpaa_rating
                char(5),
primary key(pid, mid)
);
-- Directors_in_movies--
CREATE TABLE directors in movies (
pid
             char(3) not null references people(pid),
 mid
              char(3) not null references movies(mid),
domestic_sales$
                    integer,
primary key(pid, mid)
);
-- SQL statements for loading example data: --
-- People --
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('1', 'Sean', 'Connery', '08/25/1930');
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('2', 'Honor', 'Blackman', '08/22/1925');
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('3', 'Ben', 'Affleck', '08/15/1972');
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('4', 'Johnny', 'Depp', '06/09/1963');
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INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('5', 'Keira', 'Knightley', '03/26/1985');
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('6', 'Guy', 'Hamilton', '09/16/1922');
INSERT INTO people( pid, first_name, last_name, DOB_YYYY_MM_DD )
VALUES('7', 'Gore', 'Verbinski', '03/16/1964');
--Actors--
INSERT INTO actors( aid, hair_color, eye_color, height_inches, weight_lbs )
VALUES('1', null, null, null, null);
INSERT INTO actors( aid, hair_color, eye_color, height_inches, weight_lbs )
VALUES('2', 'grey', 'blue', 66, 125);
INSERT INTO actors( aid, hair_color, eye_color, height_inches, weight_lbs )
VALUES('3', 'black', 'black', 76, 216);
INSERT INTO actors( aid, hair_color, eye_color, height_inches, weight_lbs )
VALUES('4', 'brown', 'brown', 70, 157);
INSERT INTO actors( aid, hair_color, eye_color, height_inches, weight_lbs )
VALUES('5', 'brown', 'brown', 67, 119);
--Directors--
INSERT INTO directors( did, film_school, spouse_first_name, spouse_last_name )
VALUES('3', null, null, null);
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INSERT INTO directors(did, film_school, spouse_first_name, spouse_last_name)

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VALUES('6', null, 'Naomi', 'Chance');
INSERT INTO directors( did, film_school, spouse_first_name, spouse_last_name )
VALUES('7', 'UCLA Film School', null, null);
--Guild Winners--
INSERT INTO guild winners(pid, year won, as star, as director)
VALUES('3', 2012, 'yes', 'no');
INSERT INTO guild_winners( pid, year_won, as_star, as_director )
VALUES('4', 2015, 'yes', 'yes');
INSERT INTO guild_winners( pid, year_won, as_star, as_director )
VALUES('7', 2012, 'no', 'no');
--Movies--
INSERT INTO movies( mid, name, year released )
VALUES('M01', 'Goldfinger', 1964);
INSERT INTO movies (mid, name, year released)
VALUES('M02', 'Argo', 2012);
INSERT INTO movies( mid, name, year_released )
VALUES('M03', 'Pirates of the Caribbean: The Curse of the Black Pearl', 2003);
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--Actors_in_movies--
INSERT INTO actors_in_movies( pid, mid, mpaa_rating )
VALUES('1', 'M01', 'PG');
INSERT INTO actors_in_movies( pid, mid, mpaa_rating )
VALUES('2', 'M01', 'PG');
INSERT INTO actors_in_movies( pid, mid, mpaa_rating )
VALUES('3', 'M02', 'R');
INSERT INTO actors in movies(pid, mid, mpaa rating)
VALUES('4', 'M03', 'PG-13');
INSERT INTO actors_in_movies( pid, mid, mpaa_rating )
VALUES('5', 'M03', 'PG-13');
--Directors_in_movies--
INSERT INTO directors_in_movies( pid, mid, domestic_sales$ )
VALUES('3', 'M02', 136025503);
INSERT INTO directors_in_movies( pid, mid, domestic_sales$ )
VALUES('6', 'M01', 51081062);
INSERT INTO directors_in_movies( pid, mid, domestic_sales$ )
VALUES('7', 'M03', 305411224);
```

```
select *
from people;
select *
from actors;
select *
from directors;
select *
from guild_winners;
select *
from movies;
select *
from actors_in_movies;
select *
from directors_in_movies;
--Working on query show all the directors with whom actor "Sean Connery" has worked: --
--1--
select p.pid
from people p
where first_name = 'Sean'
and last_name = 'Connery';
--2--
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select a.mid

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from people p,
actors_in_movies a
where a.pid = p.pid
and p.pid = '1';
--3--
select distinct d.pid
from directors_in_movies d,
  actors_in_movies a
where a.mid = d.mid
 and a.mid = 'M01';
--4--
select p.first_name, p.last_name
from people p,
  directors_in_movies d
where d.pid = p.pid
 and d.pid = '6';
--Final Query to show all the directors with whom actor "Sean Connery" has worked: --
select p.first_name, p.last_name
from people p,
  directors_in_movies d
where d.pid = p.pid
 and d.pid in ( select distinct d.pid
         from directors_in_movies d,
```

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actors_in_movies a

where a.mid = d.mid

and a.mid in ( select a.mid

from people p,

actors_in_movies a

where a.pid = p.pid

and p.pid in (select p.pid

from people p

where first_name = 'Sean'

and last_name = 'Connery'

)

)

);
```

Functional Dependencies:

E / R Diagram:

