

DATABASE imdb_small

Relational model:

ACTORS (id, first_name, last_name, gender)

DIRECTORS (id, first_name, last_name)

MOVIES (id, name, year, rank)

MOVIES_DIRECTORS (director_id*, movie_id*)

MOVIES_GENRES (movie_id*, genre)

ROLES (actor_id*, movie_id*, role)

id	name	year	rank
112290	Fight Club	1999	8.5
209658	Meet the Parents	2000	7
210511	Memento	2000	8.7
...			

movies

actor_id	movie_id	role
433259	313398	Capt. James T. Kirk
433259	407323	Sgt. T.J. Hooker
797926	342189	Herself
...		

roles

id	first_name	last_name	gender
433259	William	Shatner	M
797926	Britney	Spears	F
831289	Sigourney	Weaver	F
...			

actors

director_id	movie_id
24758	112290
66965	209658
72723	313398
...	

movies_directors

id	first_name	last_name
24758	David	Fincher
66965	Jay	Roach
72723	William	Shatner
...		

directors

movie_id	genre
209658	Comedy
313398	Action
313398	Sci-Fi
...	

movies_genres

1.- Data of all the actors with the surname 'Willis'.

id	first_name	last_name	gender
512541	Bruce	Willis	M
512626	Phillip L.	Willis	M
836217	Rosemary	Willis	F
836222	Susan	Willis	F

4 rows in set (0.000 sec)

2. Code and title of the movies that in its title there are some of the following words: "kill", "pirates", "war", "man". Order the result by movie title.

id	name
147603	Hollow Man
176711	Kill Bill: Vol. 1
176712	Kill Bill: Vol. 2
256630	Pirates of the Caribbean
313459	Star Wars

5 rows in set (0.001 sec)

3. Title of films directed by Ethan Coen order by title.

name
Fargo
O Brother, Where Art Thou?

2 rows in set (0.001 sec)

4. Title and year of premiere of the movies directed by Ethan Coen after 1996 order by year.

```
+-----+-----+
| name | year |
+-----+-----+
| O Brother, Where Art Thou? | 2000 |
+-----+-----+
1 row in set (0.002 sec)
```

5. Title and year of premiere of all those films that we do not know the director. order the results by film title (clue: NOT IN (subselect)).

```
+-----+-----+-----+
| id | name | year |
+-----+-----+-----+
| 256630 | Pirates of the Caribbean | 2003 |
+-----+-----+-----+
1 row in set (0.001 sec)
```

6. Name of the director, premiere year and full name and roles of the actors in the movie "Lost in Translation"

```
+-----+-----+-----+-----+-----+
| director_name | movie_title | year | actor_name | role |
+-----+-----+-----+-----+-----+
| Sofia Coppola | Lost in Translation | 2003 | Akiko Monou | P Chan |
| Sofia Coppola | Lost in Translation | 2003 | Akiko Takeshita | Ms. Kawasaki |
| Sofia Coppola | Lost in Translation | 2003 | Akimitsu Naruyama | French Japanese Nightclub Pat |
| Sofia Coppola | Lost in Translation | 2003 | Akira (II) Yamaguchi | Bellboy |
| Sofia Coppola | Lost in Translation | 2003 | Akira Motomura | Old Man |
| Sofia Coppola | Lost in Translation | 2003 | Anna Faris | Kelly |
| Sofia Coppola | Lost in Translation | 2003 | Asuka Shimuzu | Kelly's Translator |
| Sofia Coppola | Lost in Translation | 2003 | Bill (I) Murray | Bob Harris |
| Sofia Coppola | Lost in Translation | 2003 | Catherine (II) Lambert | Jazz Singer |
| Sofia Coppola | Lost in Translation | 2003 | Diamond Yukai | Commercial Director |
| Sofia Coppola | Lost in Translation | 2003 | Diedrich Bollman | German Hotel Guest |
| Sofia Coppola | Lost in Translation | 2003 | François du Bois | Sausalito Piano |
| Sofia Coppola | Lost in Translation | 2003 | Fumihiko Hayashi | Charlie |
| Sofia Coppola | Lost in Translation | 2003 | Georg O.P. Eschert | German Hotel Guest |
| Sofia Coppola | Lost in Translation | 2003 | Giovanni Ribisi | John |
| Sofia Coppola | Lost in Translation | 2003 | Gregory Pekar | American Businessman #1 |
| Sofia Coppola | Lost in Translation | 2003 | Hiroko Kawasaki | Hiroko |
| Sofia Coppola | Lost in Translation | 2003 | Hiroshi (I) Kawashima | Bartender, Nightclub |
| Sofia Coppola | Lost in Translation | 2003 | Hugo Codaro | Aerobics Instructor |
| Sofia Coppola | Lost in Translation | 2003 | Ikuko Takahashi | Ikebana Instructor |
| Sofia Coppola | Lost in Translation | 2003 | Juliet Akinyi | Hans |
| Sofia Coppola | Lost in Translation | 2003 | Jun Maki | Suntory Client |
| Sofia Coppola | Lost in Translation | 2003 | Kanako Nakazato | Make-Up Person |
| Sofia Coppola | Lost in Translation | 2003 | Kazuko (I) Shibata | Press Agent |
| Sofia Coppola | Lost in Translation | 2003 | Kazuo Yamada | Hospital Receptionist |
| Sofia Coppola | Lost in Translation | 2003 | Kazuyoshi Minamimagoe | Press Agent |
| Sofia Coppola | Lost in Translation | 2003 | Kei Takyo | TV Translator |
| Sofia Coppola | Lost in Translation | 2003 | Koichi (I) Tanaka | Bartender, NY Bar |
| Sofia Coppola | Lost in Translation | 2003 | Kunichi Nomura | Kun |
| Sofia Coppola | Lost in Translation | 2003 | Lisle Wilkerson | Sexy Businesswoman |
| Sofia Coppola | Lost in Translation | 2003 | Mark Willms | Carl West |
| Sofia Coppola | Lost in Translation | 2003 | Nancy (I) Steiner | Lydia Harris |
| Sofia Coppola | Lost in Translation | 2003 | Nao Asuka | Premium Fantasy Woman |
| Sofia Coppola | Lost in Translation | 2003 | Nao Kitman | Nao |
| Sofia Coppola | Lost in Translation | 2003 | Nobuhiko Kitamura | Nobu |
| Sofia Coppola | Lost in Translation | 2003 | Noguchi Takayuki | Press Agent |
| Sofia Coppola | Lost in Translation | 2003 | Osamu Shigematu | Doctor |
| Sofia Coppola | Lost in Translation | 2003 | Richard (XV) Allen | American Businessman #2 |
| Sofia Coppola | Lost in Translation | 2003 | Ryo Kondo | Politician |
| Sofia Coppola | Lost in Translation | 2003 | Ryuichiro Baba | Concierge |
| Sofia Coppola | Lost in Translation | 2003 | Scarlett Johansson | Charlotte |
| Sofia Coppola | Lost in Translation | 2003 | Shigekazu Aida | Mr. Valentine |
| Sofia Coppola | Lost in Translation | 2003 | Takashi (I) Fujii | TV Host |
| Sofia Coppola | Lost in Translation | 2003 | Tetsuro Naka | Stills Photographer |
| Sofia Coppola | Lost in Translation | 2003 | Tim Leffman | Sausalito Guitar |
| Sofia Coppola | Lost in Translation | 2003 | Toshikawa Hiromi | Hiromix |
| Sofia Coppola | Lost in Translation | 2003 | Yasuhiko Hattori | Charlie's Friend |
| Sofia Coppola | Lost in Translation | 2003 | Yû Daiki | Bambie |
| Sofia Coppola | Lost in Translation | 2003 | Yuji Okabe | Politician's Aide |
| Sofia Coppola | Lost in Translation | 2003 | Yumi Ikeda | Politician's Aide |
| Sofia Coppola | Lost in Translation | 2003 | Yumika Saki | Politician's Aide |
+-----+-----+-----+-----+-----+
51 rows in set (0.003 sec)
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7. Title of the film, premiere year and full name of the director of all those films in which the director is also an actor in their own films. Sort the results by artist name.

movie_title	year	artist_name
Shrek	2001	Andrew Adamson
Snatch.	2000	Guy Ritchie
Titanic	1997	James (I) Cameron
UHF	1989	Jay Levey
Braveheart	1995	Mel (I) Gibson
Office Space	1999	Mike (I) Judge
Pulp Fiction	1994	Quentin Tarantino
Reservoir Dogs	1992	Quentin Tarantino
Ocean's Eleven	2001	Steven Soderbergh
Garden State	2004	Zach Braff

10 rows in set (0.030 sec)

8. Name of the actors with whom Uma Thurman worked. Also indicate the full name and the year of the premiere of the film. Order the results by movie name and actor full name. Obviously, Uma Thurman must not be in the results.

actor_name	movie_title	year
Ai (III) Maeda	Kill Bill: Vol. 1	2003
Akaji Maro	Kill Bill: Vol. 1	2003
Ambrosia Kelley	Kill Bill: Vol. 1	2003
Chia Hui Liu	Kill Bill: Vol. 1	2003
Chiaki Kuriyama	Kill Bill: Vol. 1	2003
Christopher Allen Nelson	Kill Bill: Vol. 1	2003
Daryl Hannah	Kill Bill: Vol. 1	2003
David Carradine	Kill Bill: Vol. 1	2003
Goro Daimon	Kill Bill: Vol. 1	2003
Hikaru Midorikawa	Kill Bill: Vol. 1	2003
Issei Takahashi	Kill Bill: Vol. 1	2003
James Parks	Kill Bill: Vol. 1	2003
Jonathan Loughran	Kill Bill: Vol. 1	2003
Julie Dreyfus	Kill Bill: Vol. 1	2003
Julie Manase	Kill Bill: Vol. 1	2003
Jun Kunimura	Kill Bill: Vol. 1	2003
Kazuki Kitamura	Kill Bill: Vol. 1	2003
Kenji Ohba	Kill Bill: Vol. 1	2003
Lucy Liu	Kill Bill: Vol. 1	2003
Michael (I) Bowen	Kill Bill: Vol. 1	2003
Michael (I) Madsen	Kill Bill: Vol. 1	2003
Michael (I) Parks	Kill Bill: Vol. 1	2003
Michael Kuroiwa	Kill Bill: Vol. 1	2003
Naomi Kusumi	Kill Bill: Vol. 1	2003
Ronnie Yoshiko Fujiyama	Kill Bill: Vol. 1	2003
Sachiko Fujii	Kill Bill: Vol. 1	2003
Sakichi Satō	Kill Bill: Vol. 1	2003
Satoshi Yamanaka	Kill Bill: Vol. 1	2003
Shu Lan Tuan	Kill Bill: Vol. 1	2003
Shun Sugata	Kill Bill: Vol. 1	2003
Sonny Chiba	Kill Bill: Vol. 1	2003
Steve Polyi	Kill Bill: Vol. 1	2003
Tetsuro Shimaguchi	Kill Bill: Vol. 1	2003
Vivica A. Fox	Kill Bill: Vol. 1	2003
Xiaohui Hu	Kill Bill: Vol. 1	2003
Yoji Tanaka	Kill Bill: Vol. 1	2003
Yoshiko Yamaguchi	Kill Bill: Vol. 1	2003
Yoshiyuki Morishita	Kill Bill: Vol. 1	2003
Yuki Kazamatsuri	Kill Bill: Vol. 1	2003
Zhang Jin Zhan	Kill Bill: Vol. 1	2003
Al Manuel Douglas	Kill Bill: Vol. 2	2004
Bo Svenson	Kill Bill: Vol. 2	2004
Caitlin Keats	Kill Bill: Vol. 2	2004
Chia Hui Liu	Kill Bill: Vol. 2	2004
Christopher Allen Nelson	Kill Bill: Vol. 2	2004
Citlali Guadalupe Bojorquez	Kill Bill: Vol. 2	2004
Claire Smithies	Kill Bill: Vol. 2	2004
Clark Middleton	Kill Bill: Vol. 2	2004
Daryl Hannah	Kill Bill: Vol. 2	2004
David Carradine	Kill Bill: Vol. 2	2004
Graciela Salazar Mendoza	Kill Bill: Vol. 2	2004
Helen (IV) Kim	Kill Bill: Vol. 2	2004
Jeannie Epper	Kill Bill: Vol. 2	2004
Jorge (II) Silva	Kill Bill: Vol. 2	2004
Larry Bishop	Kill Bill: Vol. 2	2004
Laura Cayouette	Kill Bill: Vol. 2	2004
Lucia Cruz Marroquin	Kill Bill: Vol. 2	2004
Lucy Liu	Kill Bill: Vol. 2	2004
Maria de Lourdes Lombera	Kill Bill: Vol. 2	2004
Maria Del Rosario Gutiérrez	Kill Bill: Vol. 2	2004
Michael (I) Madsen	Kill Bill: Vol. 2	2004
Michael (I) Parks	Kill Bill: Vol. 2	2004
Patricia Silva	Kill Bill: Vol. 2	2004
Perla Haney-Jardine	Kill Bill: Vol. 2	2004
Reda Beebe	Kill Bill: Vol. 2	2004
Samuel L. Jackson	Kill Bill: Vol. 2	2004
Shana Stein	Kill Bill: Vol. 2	2004
Sid Haig	Kill Bill: Vol. 2	2004
Sonia Angelica Padilla Curiel	Kill Bill: Vol. 2	2004
Stephanie L. Moore	Kill Bill: Vol. 2	2004
Steve Polyi	Kill Bill: Vol. 2	2004
Thea Rose	Kill Bill: Vol. 2	2004
Venessia Valentino	Kill Bill: Vol. 2	2004
Veronica Janet Martinez	Kill Bill: Vol. 2	2004
Vicki Lucal	Kill Bill: Vol. 2	2004
Vivica A. Fox	Kill Bill: Vol. 2	2004
William Paul Clark	Kill Bill: Vol. 2	2004
Alexis Arquette	Pulp Fiction	1994
Amanda Plummer	Pulp Fiction	1994
Angela (I) Jones	Pulp Fiction	1994
Ani Sava	Pulp Fiction	1994
Brad (I) Parker	Pulp Fiction	1994
Brenda Hillhouse	Pulp Fiction	1994
Bronagh Gallagher	Pulp Fiction	1994
Bruce Willis	Pulp Fiction	1994
Burr Steers	Pulp Fiction	1994
Carl (I) Allen	Pulp Fiction	1994
Chandler Lindauer	Pulp Fiction	1994
Christopher Walken	Pulp Fiction	1994
Dick (I) Miller	Pulp Fiction	1994
Don Blakely	Pulp Fiction	1994
Duane Whitaker	Pulp Fiction	1994
Emil Sitka	Pulp Fiction	1994
Eric (I) Clark	Pulp Fiction	1994
Eric Stoltz	Pulp Fiction	1994
Frank Whaley	Pulp Fiction	1994
Gary Shorelle	Pulp Fiction	1994
Harvey Keitel	Pulp Fiction	1994
Jerome Patrick Hoban	Pulp Fiction	1994
John Travolta	Pulp Fiction	1994
Joseph Pilato	Pulp Fiction	1994
Julia Sweeney	Pulp Fiction	1994
Karen Maruyama	Pulp Fiction	1994
Kathy Griffin	Pulp Fiction	1994
Laura Lovelace	Pulp Fiction	1994
Lawrence Bender	Pulp Fiction	1994
Linda Kaye	Pulp Fiction	1994
Lorelei Leslie	Pulp Fiction	1994
Maria de Medeiros	Pulp Fiction	1994
Michael Gilden	Pulp Fiction	1994
Peter Calderon	Pulp Fiction	1994
Peter (I) Greene	Pulp Fiction	1994
Phil LaMarr	Pulp Fiction	1994
Quentin Tarantino	Pulp Fiction	1994
Rich Turner	Pulp Fiction	1994
Robert Ruth	Pulp Fiction	1994
Rosanna Arquette	Pulp Fiction	1994
Samuel L. Jackson	Pulp Fiction	1994
Stephen Hibbert	Pulp Fiction	1994
Steve Buscemi	Pulp Fiction	1994
Susan Griffiths	Pulp Fiction	1994
Sy Sher	Pulp Fiction	1994
Tim Roth	Pulp Fiction	1994
Venessia Valentino	Pulp Fiction	1994
Ving Rhames	Pulp Fiction	1994

125 rows in set (0.036 sec)

9. Name of the directors who have not been actors in their films, sorted by code.

```
+-----+
| director_name |
+-----+
| Andy Wachowski |
| Cameron Crowe |
| Christopher Nolan |
| Clint Eastwood |
| Darren Aronofsky |
| David Fincher |
| David Koepp |
| Ethan Coen |
| Francis Ford Coppola |
| Frank Darabont |
| George Lucas |
| Herbert (I) Ross |
| Joel Coen |
| John (I) Hughes |
| John (I) Landis |
| John Musker |
| Larry Wachowski |
| Oliver (I) Stone |
| Paul (I) Verhoeven |
| Rob Reiner |
| Ron Clements |
| Ron Howard |
| Sofia Coppola |
| Vicky Jenson |
+-----+
24 rows in set (0.026 sec)
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10. List of directors sorted by full name, indicating the number of films they have directed.

```
+-----+-----+
| director_name | count(*) |
+-----+-----+
| Andrew Adamson | 1 |
| Andy Wachowski | 1 |
| Cameron Crowe | 1 |
| Christopher Nolan | 2 |
| Clint Eastwood | 1 |
| Darren Aronofsky | 1 |
| David Fincher | 1 |
| David Koepp | 1 |
| Ethan Coen | 2 |
| Francis Ford Coppola | 1 |
| Frank Darabont | 1 |
| George Lucas | 1 |
| Guy Ritchie | 1 |
| Herbert (I) Ross | 1 |
| James (I) Cameron | 2 |
| Jay Levey | 1 |
| Joel Coen | 2 |
| John (I) Hughes | 1 |
| John (I) Landis | 1 |
| John Musker | 1 |
| Larry Wachowski | 1 |
| Mel (I) Gibson | 1 |
| Mike (I) Judge | 1 |
| Oliver (I) Stone | 1 |
| Paul (I) Verhoeven | 1 |
| Quentin Tarantino | 4 |
| Rob Reiner | 1 |
| Ron Clements | 1 |
| Ron Howard | 1 |
| Sofia Coppola | 1 |
| Steven Soderbergh | 1 |
| Vicky Jenson | 1 |
| Zach Braff | 1 |
+-----+-----+
33 rows in set (0.001 sec)
```

11. List of actors with surname starting with a 'P', indicating the number of films in which they have participated ordered by the number of films descendent.

first_name	last_name	count(R.movie_id)
Steve	Polyi	3
Bill	Paxton	3
Brad	Pitt	3
David	Proval	2
Chris (I)	Penn	2
Michael (I)	Parks	2
Joe	Pantoliano	2
Timothy Paul	Perez	1
Rick	Petrucelli	1
Shaun	Pearson	1
Catherine	Porter	1
Anthony	Parrulli	1
Jane	Pratt	1
Natalie	Portman	1
Alibe	Parsons	1
James	Parks	1
Duncan	Putney	1
Mark	Pinter	1
Sarah Jessica	Parker	1
Amanda	Plummer	1
Pat	Perkins	1
Sean	Penn	1
John	Paragon	1
Brad (I)	Parker	1
Steve F.	Price Jr.	1
Connor	Paolo	1
Jonathan (I)	Phillips	1
J.T.	Pontino	1
Gary (I)	Palmer	1
David F.	Powers	1
Guy (I)	Pearce	1
Lew	Palter	1
Todd	Peirce	1
Justin	Possenti	1
Bill	Pickle	1
Antonio	Polk	1
Kevin	Pollak	1
Anthony Ray	Parker	1
Miguel (I)	Pérez	1
Marco	Perella	1
David	Prowse	1
Harve	Presnell	1
Gregory	Pekar	1
Robert (I)	Peters	1
Shah Mohammed Reza	Pahlavi	1
Lorne	Peterson	1
Robert	Paterson	1
Sonia Angelica	Padilla Curiel	1
Frank (III)	Patton	1
Al	Pacino	1
Clive	Pearse	1
Manley	Pope Jr.	1
Del	Pentecost	1
Ray	Proscia	1
Jim (II)	Parsons	1
Joe	Pecoraro	1
Alan	Polonsky	1
Beata	Pozniak	1
John	Pungitore	1
Emo	Philips	1
John	Perryman	1
Joseph	Pilato	1
Cheryl	Penland	1
Michael	Peavey	1
Judy	Prestininzi	1
Gene	Pack	1
George	Petrie	1
Francis Gary	Powers	1
T. Bruce	Page	1
Dan (I)	Pettersson	1
Stephen	Pearlman	1
Tony	Plana	1
Oliver	Page	1
J.A.	Preston	1
Janaya	Pender	1
Greg (II)	Pitts	1
Joe	Pesci	1
Jack	Purvis	1
Melissa	Peterman	1
Gary	Pike	1
Ted	Pennebaker	1
Marcus	Powell	1
Steve (I)	Park	1
Malachi	Pearson	1

84 rows in set (0.000 sec)