## **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	2000	8.7			

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

id	first_name	last_name	gender
433259	William	Shatner	М
797926	Britney	Spears	F
831289	Sigourney	Weaver	F
	, ,		

movies

roles

S

director_id	movie_id
24758	112290
66965	209658
72723	313398

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

 movie\_id
 genre

 209658
 Comedy

 313398
 Action

 313398
 Sci-Fi

movies directors

directors

movies\_genres

## Link to download the database here.

## NOTES:

- I would create a table for genres...
- The exercises are not sorted by order of difficulty...
- 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

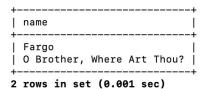
4 rows in set (0.000 sec)

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.

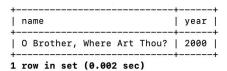
id	name
147603	Hollow Man
176711	Kill Bill: Vol. 1
176712	Kill Bill: Vol. 2
256630	Pirates of the Caribbean
313459	Star Wars

5 rows in set (0.001 sec)

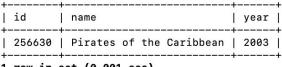
3. Title of films directed by Ethan Coen order by title.



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



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)).



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	Fumihiro 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	Julliet 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
	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		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)

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
T		T

10 rows in set (0.030 sec)

NOTE: Actors and Directors have different id despite the fact that they are the same person!! I prefer a table Artist, and we will have actors and directors together.

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	Perla Haney-Jardine   Reda Beebe	Kill Bill: Vol. 2   Kill Bill: Vol. 2	
	+	++	Samuel L. Jackson	Kill Bill: Vol. 2	
Ai (III) Maeda	Kill Bill: Vol. 1	2003	Shana Stein	Kill Bill: Vol. 2	
Akaji Maro	Kill Bill: Vol. 1	2003	Sid Haig	Kill Bill: Vol. 2	
Ambrosia Kelley	Kill Bill: Vol. 1		Sonia Angelica Padilla Curiel	Kill Bill: Vol. 2	i
Chia Hui Liu	Kill Bill: Vol. 1		Stephanie L. Moore	Kill Bill: Vol. 2	İ
Chiaki Kuriyama	Kill Bill: Vol. 1		Stevo Polyi	Kill Bill: Vol. 2	i
Christopher Allen Nelson	Kill Bill: Vol. 1		Thea Rose	Kill Bill: Vol. 2	İ
Daryl Hannah	Kill Bill: Vol. 1		Venessia Valentino	Kill Bill: Vol. 2	ĺ
David Carradine	Kill Bill: Vol. 1		Veronica Janet Martinez	Kill Bill: Vol. 2	
Goro Daimon	Kill Bill: Vol. 1		Vicki Lucai	Kill Bill: Vol. 2	
Hikaru Midorikawa	Kill Bill: Vol. 1		Vivica A. Fox	Kill Bill: Vol. 2	
Issei Takahashi	Kill Bill: Vol. 1		William Paul Clark	Kill Bill: Vol. 2	1
James Parks	Kill Bill: Vol. 1		Alexis Arquette	Pulp Fiction	1
Jonathan Loughran	Kill Bill: Vol. 1		Amanda Plummer	Pulp Fiction	1
Julie Dreyfus	Kill Bill: Vol. 1		Angela (I) Jones	Pulp Fiction	ļ
Julie Manase	Kill Bill: Vol. 1		Ani Sava	Pulp Fiction	ļ
Jun Kunimura	Kill Bill: Vol. 1		Brad (I) Parker	Pulp Fiction	ļ
Kazuki Kitamura Kenji Ohba	Kill Bill: Vol. 1   Kill Bill: Vol. 1		Brenda Hillhouse	Pulp Fiction	ļ
kenji Unda Lucy Liu	Kill Bill: Vol. 1		Bronagh Gallagher	Pulp Fiction	ļ
Michael (I) Bowen	Kill Bill: Vol. 1		Bruce Willis	Pulp Fiction	1
Michael (I) Madsen	Kill Bill: Vol. 1		Burr Steers	Pulp Fiction	-
Michael (I) Parks	Kill Bill: Vol. 1		Carl (I) Allen	Pulp Fiction	-
Michael Kuroiwa	Kill Bill: Vol. 1		Chandler Lindauer	Pulp Fiction	-
Naomi Kusumi	Kill Bill: Vol. 1		Christopher Walken	Pulp Fiction	-
Ronnie Yoshiko Fujiyama	Kill Bill: Vol. 1		Dick (I) Miller	Pulp Fiction	ŀ
Sachiko Fujii	Kill Bill: Vol. 1		Don Blakely	Pulp Fiction	ŀ
Sakichi Satô	Kill Bill: Vol. 1		Duane Whitaker   Emil Sitka	Pulp Fiction   Pulp Fiction	ŀ
Satoshi Yamanaka	Kill Bill: Vol. 1		Emil Sitka   Eric (I) Clark	Pulp Fiction	-
Shu Lan Tuan	Kill Bill: Vol. 1		Eric (1) Clark	Pulp Fiction	i
Shun Sugata	Kill Bill: Vol. 1		Frank Whaley	Pulp Fiction	-
Sonny Chiba	Kill Bill: Vol. 1		Gary Shorelle	Pulp Fiction	ŀ
Stevo Polyi	Kill Bill: Vol. 1		Harvey Keitel	Pulp Fiction	1
Tetsuro Shimaguchi	Kill Bill: Vol. 1	2003	Jerome Patrick Hoban	Pulp Fiction	1
Vivica A. Fox	Kill Bill: Vol. 1	2003	John Travolta	Pulp Fiction	i
Xiaohui Hu	Kill Bill: Vol. 1		Joseph Pilato	Pulp Fiction	i
Yoji Tanaka	Kill Bill: Vol. 1		Julia Sweeney	Pulp Fiction	i
Yoshiko Yamaguchi	Kill Bill: Vol. 1		Karen Maruyama	Pulp Fiction	i
Yoshiyuki Morishita	Kill Bill: Vol. 1		Kathy Griffin	Pulp Fiction	i
Yuki Kazamatsuri	Kill Bill: Vol. 1		Laura Lovelace	Pulp Fiction	i
Zhang Jin Zhan	Kill Bill: Vol. 1	2003	Lawrence Bender	Pulp Fiction	i
Al Manuel Douglas	Kill Bill: Vol. 2		Linda Kaye	Pulp Fiction	Ĺ
Bo Svenson	Kill Bill: Vol. 2	2004	Lorelei Leslie	Pulp Fiction	i
Caitlin Keats	Kill Bill: Vol. 2		Maria de Medeiros	Pulp Fiction	i
Chia Hui Liu	Kill Bill: Vol. 2	2004	Michael Gilden	Pulp Fiction	i
Christopher Allen Nelson	Kill Bill: Vol. 2		Paul Calderon	Pulp Fiction	İ
Citlati Guadalupe Bojorquez	Kill Bill: Vol. 2		Peter (I) Greene	Pulp Fiction	İ
Claire Smithies	Kill Bill: Vol. 2		Phil LaMarr	Pulp Fiction	1
Clark Middleton	Kill Bill: Vol. 2		Quentin Tarantino	Pulp Fiction	1
Daryl Hannah David Carradine	Kill Bill: Vol. 2   Kill Bill: Vol. 2		Rich Turner	Pulp Fiction	1
David Carradine Graciela Salazar Mendoza	Kill Bill: Vol. 2		Robert Ruth	Pulp Fiction	1
Graciela Salazar Mendoza Helen (IV) Kim	Kill Bill: Vol. 2		Rosanna Arquette	Pulp Fiction	
Jeannie Epper	Kill Bill: Vol. 2		Samuel L. Jackson	Pulp Fiction	
Jorge (II) Silva	Kill Bill: Vol. 2		Stephen Hibbert	Pulp Fiction	
Larry Bishop	Kill Bill: Vol. 2		Steve Buscemi	Pulp Fiction	l
Laura Cayouette	Kill Bill: Vol. 2	2004	Susan Griffiths	Pulp Fiction	ļ
Lucia Cruz Marroquin	Kill Bill: Vol. 2	2004	Sy Sher	Pulp Fiction	1
Lucy Liu	Kill Bill: Vol. 2	2004	Tim Roth	Pulp Fiction	ļ
Maria de Lourdes Lombera	Kill Bill: Vol. 2	2004	Venessia Valentino	Pulp Fiction	ļ
Maria Del Rosario Gutiérrez	Kill Bill: Vol. 2	2004	Ving Rhames	Pulp Fiction	
Michael (I) Madsen	Kill Bill: Vol. 2	2004	+	+	+-
Michael (I) Parks	Kill Bill: Vol. 2	2004	125 rows in set (0.036 sec)		
Patricia Silva	Kill Bill: Vol. 2	2004			

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

	director_name
	Andy Wachowski
	Cameron Crowe
1	Christopher Nolan
1	Clint Eastwood
	Darren Aronofsky
1	David Fincher
1	David Koepp
	Ethan Coen
	Francis Ford Coppola
1	Frank Darabont
1	George Lucas
1	Herbert (I) Ross
	Joel Coen
	John (I) Hughes
	John (I) Landis
	John Musker
	Larry Wachowski
	Oliver (I) Stone
	Paul (I) Verhoeven
1	Rob Reiner
1	Ron Clements
1	Ron Howard
	Sofia Coppola
1	Vicky Jenson

24 rows in set (0.026 sec)

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

84 rows in set (0.000 sec)

- 12. Do you think DIRECTORS and ACTORS should be the same table? Explain your answer.
- 13. Having DIRECTORS and ACTORS separated in two tables, can we have inconsistent data?