

Imatge 1. Esquema de la base de dades

Es tracta d'una base de dades de películes. Hi ha diferents taules que guarden dades:

movie -> informació d'una película: id, títol, data de creació, gènere, etc.

genre -> informació dels gèneres disponibles: id, nom, quin usuari el va crear, etc.

person -> informació d'una persona: nom, país, data naixement/mort, pares, etc.

movie_person -> relació many-to-many entre películes i persones/rols

role -> informació del rols disponibles d'una persona en una película

SELECT person_name AS "name", person_country AS "country", person_dob AS "birthdate" FROM tb_person p

WHERE p.person_dod IS NULL

ORDER BY person_dob;

John Williams United States 1928-08-08 Vera Miles United States 1929-08-23 Sean Connery Scotland 1930-07-08 Robert Duvall United States 1931-01-05 Morgan Freeman United States 1935-10-01 Francis Ford Coppola United States 1939-04-07 Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1942-07-08 Harrison Ford United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1945-07-08 Steven Spielberg United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1949-06-07 Mel Gibson Australia 1950-08-09 Karra Elejalde Spain 1960-03-06 Emilio Martinez Lazaro Spain 1960-03-06 <	name	country	birthdate
Sean Connery Scotland 1930-07-08 Robert Duvall United States 1931-01-05 Morgan Freeman United States 1935-10-01 Francis Ford Coppola United States 1939-04-07 Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1945-07-08 Steven Spielberg United States 1949-06-07 Mel Gibson Australia 1950-08-09 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07	John Williams	United States	1928-08-08
Robert Duvall United States 1931-01-05 Morgan Freeman United States 1935-10-01 Francis Ford Coppola United States 1939-04-07 Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2005-06-01 Bob Sheen United States 2005-06-01	Vera Miles	United States	1929-08-23
Morgan Freeman United States 1935-10-01 Francis Ford Coppola United States 1939-04-07 Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1995-09-23 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Sean Connery	Scotland	1930-07-08
Francis Ford Coppola Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain Emilio Estevez United States 1963-08-07 Carmen Machi Charlie Sheen United States 1963-08-09 Charlie Sheen United States 1963-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Robert Alamo Daniel Sanchez Arevalo Quim Gutierrez Spain 1970-06-08 Quim Gutierrez Spain 1984-07-01 Paula Speert Sheen United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain Ponted States 2003-07-06 Sam Sheen United States 2009-05-01 United States	Robert Duvall	United States	1931-01-05
Gary Kurtz United States 1940-07-27 Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-06-08	Morgan Freeman	United States	1935-10-01
Martin Sheen United States 1940-08-03 Harrison Ford United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1983-03-14	Francis Ford Coppola	United States	1939-04-07
Harrison Ford United States 1942-07-13 George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Gary Kurtz	United States	1940-07-27
George Lucas United States 1944-05-14 Carmine Coppola United States 1945-07-08 Steven Spielberg United States 1946-12-18 Tim Robbins United States 1949-06-07 Mel Gibson Australia 1950-08-09 Tom Hanks United States 1956-07-09 Emilio Martinez Lazaro Spain 1956-09-09 Karra Elejalde Spain 1960-03-06 Emilio Estevez United States 1962-05-12 Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2005-06-01	Martin Sheen	United States	1940-08-03
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Ramón Estevez United States 1963-08-07 Carmen Machi Spain 1964-08-09 Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-06-22 Dani Rovira Spain 1986-01-06 Palua Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Karra Elejalde	Spain	1960-03-06
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Charlie Sheen United States 1965-09-03 Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-06-22 Dani Rovira Spain 1986-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Ramón Estevez	United States	1963-08-07
Reneé Estevez United States 1967-04-02 Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Carmen Machi	Spain	1964-08-09
Catherine Zeta-Jones Wales 1969-09-25 Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Charlie Sheen	United States	1965-09-03
Robert Alamo Spain 1970-05-06 Daniel Sanchez Arevalo Spain 1970-06-08 Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Reneé Estevez	United States	1967-04-02
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Quim Gutierrez Spain 1981-03-27 Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Robert Alamo	Spain	1970-05-06
Veronica Echegui Spain 1983-03-14 Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Daniel Sanchez Arevalo	Spain	1970-06-08
Taylor Levi Estevez United States 1984-06-22 Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Quim Gutierrez	Spain	1981-03-27
Dani Rovira Spain 1984-07-01 Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Veronica Echegui	Spain	1983-03-14
Paula Speert Sheen United States 1986-01-06 Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Taylor Levi Estevez	United States	1984-06-22
Paloma Rae Estevez United States 1986-02-15 Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Dani Rovira	Spain	1984-07-01
Clara Lago Spain 1986-04-17 Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Paula Speert Sheen	United States	1986-01-06
Patrick Criado Spain 1995-09-23 Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Paloma Rae Estevez	United States	1986-02-15
Paula Jones-Sheen United States 2003-07-06 Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Clara Lago	Spain	1986-04-17
Sam Sheen United States 2004-03-09 Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Patrick Criado	Spain	1995-09-23
Lola Sheen United States 2005-06-01 Bob Sheen United States 2009-05-01	Paula Jones-Sheen	United States	2003-07-06
Bob Sheen United States 2009-05-01	Sam Sheen	United States	2004-03-09
	Lola Sheen	United States	2005-06-01
Max Sheen United States 2009-05-01	Bob Sheen	United States	2009-05-01
	Max Sheen	United States	2009-05-01

Imatge 2. Resultat query Exercici 2

SELECT g.genre_name AS "Género", COUNT(m.movie_id) AS NumOfMovies FROM tb_genre g
JOIN tb_movie m
ON g.genre_id = m.movie_genre_id
GROUP BY g.genre_name
ORDER BY NumOfMovies DESC;

Género	NumOfMovies
Comedia	3
Acción	2
Ciencia Ficción	2
Drama	2
Romance	2
Suspense	2
Fantasía	1
Terror	1
Bélico	1

Imatge 3. Resultat query exercici 3

SELECT p.person_name, COUNT(mp.role_id) AS NumOfRoles FROM tb_person p
JOIN tb_movie_person mp
ON p.person_id = mp.person_id
GROUP BY mp.person_id, mp.movie_id
HAVING NumOfRoles > 1;

person_name	NumOfRoles
Francis Ford Coppola	3
George Lucas	2
Steven Spielberg	2
Alfred Joseph Hitchcock	3
Daniel Sanchez Arevalo	2
Mel Gibson	2

Imatge 4. Resultat query exercici 4

INSERT INTO tb_genre(genre_id, genre_name, created_by_user) VALUE ('69', 'Documental', 'Victor')

genre_i	ganta nama	created_by_us created_da		updated_dat
d	genre_name	er	е	е
1	Acción	OS_SGAD	NULL	NULL
2	Ciencia Ficción	OS_SGAD	NULL	NULL
3	Comedia	OS_SGAD	NULL	NULL
4	Drama	OS_SGAD	NULL	NULL
5	Fantasía	apermag	NULL	NULL
6	Melodrama	apermag	2018-09-01	2018-09-27
7	Musical	OS_SGAD	NULL	NULL
8	Romance	OS_SGAD	NULL	NULL
9	Suspense	OS_SGAD	NULL	NULL
10	Terror	OS_SGAD	NULL	NULL
11	Bélico	OS_SGAD	NULL	NULL
69	Documental	Victor	NULL	NULL

Imatge 5. Resultat query exercici 5

movie_ id	movie_title	movie_date	movie_for mat	movie_genre _id	created_by_u ser	created_d ate	updated_d ate
1	Apocalypse Now	1979-05-10	Film	11	OS_SGAD	NULL	NULL
2	Star Wars:Episode IV - A New Hope	1977-05-25	Film	2	OS_SGAD	NULL	NULL
3	Indiana Jones and the Temple of Doom	1984-05-08	Film	1	OS_SGAD	NULL	NULL
4	The Terminal	2004-06-18	Digital	3	OS_SGAD	NULL	NULL
5	Jaws	1975-01-01	Film	10	OS_SGAD	NULL	NULL
6	ET The Extraterrestrial	1982-07-25	Film	5	OS_SGAD	NULL	NULL
7	Psycho	1960-05-06	Film	9	OS_SGAD	NULL	NULL
8	Ocho Apellidos Vascos	2014-03-14	Digital	3	OS_SGAD	NULL	NULL
9	Ocho Apellidos Catalanes	2016-06-09	Digital	8	OS_SGAD	NULL	NULL
10	El otro lado de la cama	2002-09-04	Digital	8	OS_SGAD	NULL	NULL
12	El dia de la bestia	1994-12-25	Film	1	OS_SGAD	NULL	NULL
13	Braveheart	1995-08-08	Film	4	OS_SGAD	NULL	NULL
14	The Shawshank Redemption	1992-01-07	Film	4	OS_SGAD	NULL	NULL
15	Las brujas de Zugarramurdi	2009-10-07	Digital	9	OS_SGAD	NULL	NULL
16	Blade Runner	1982-12-25	Digital	2	OS_SGAD	NULL	NULL

Imatge 6. Resultat queries exercici 6

UPDATE tb_movie m
SET m.movie_genre_id = (SELECT genre_id FROM tb_genre WHERE genre_name = 'Comedia')

WHERE m.movie_title = "Ocho apellidos catalanes";

movie_id	movie_title	movie_dat e	movie_for mat	movie_gen re_id	created_by _user	created_da te	updated_d ate
1	Apocalypse Now	1979-05-10	Film	11	OS_SGAD	NULL	NULL
2	Star Wars:Episode IV - A New Hope	1977-05-25	Film	2	OS_SGAD	NULL	NULL
3	Indiana Jones and the Temple of Doom	1984-05-08	Film	1	OS_SGAD	NULL	NULL
4	The Terminal	2004-06-18	Digital	3	OS_SGAD	NULL	NULL
5	Jaws	1975-01-01	Film	10	OS_SGAD	NULL	NULL
6	ET The Extraterrestrial	1982-07-25	Film	5	OS_SGAD	NULL	NULL
7	Psycho	1960-05-06	Film	9	OS_SGAD	NULL	NULL
8	Ocho Apellidos Vascos	2014-03-14	Digital	3	OS_SGAD	NULL	NULL
9	Ocho Apellidos Catalanes	2016-06-09	Digital	3	OS_SGAD	NULL	NULL
10	El otro lado de la cama	2002-09-04	Digital	8	OS_SGAD	NULL	NULL
12	El dia de la bestia	1994-12-25	Film	1	OS_SGAD	NULL	NULL
13	Braveheart	1995-08-08	Film	4	OS_SGAD	NULL	NULL
14	The Shawshank Redemption	1992-01-07	Film	4	OS_SGAD	NULL	NULL
15	Las brujas de Zugarramurdi	2009-10-07	Digital	9	OS_SGAD	NULL	NULL
16	Blade Runner	1982-12-25	Digital	2	OS_SGAD	NULL	NULL

Imatge 7. Resultat query exercici 7