

Results - Lab4

```
filmbd=# SELECT * FROM movies WHERE country = 'pt' or country = 'br';
ERROR: character with byte sequence 0xc3 0xa7 in encoding "UTF8" has no equivalent in encoding "GBK"
filmbd=# \encoding UTF8
```

```
filmbd=# SELECT * FROM movies WHERE country = 'pt' or country = 'br';
```

movieid	title	country	year_released	runtime
15	Carlota Joaquina - Princesa do Brasil	br	1995	
26	Dona Flor e Seus Dois Maridos	br	1976	110
70	O Quatrilho	br	1995	
74	Orfeu Negro	br	1959	107
80	Pixote	br	1981	128
262	O Cangaceiro	br	1953	105
913	O Pagador de Promessas	br	1962	98
935	Central do Brasil	br	1998	113
1079	Deus e o Diabo na Terra do Sol	br	1954	104
1080	Cidade de Deus	br	2002	130
1081	Tropa de Elite	br	2007	115
1543	Entranced Earth	br	1967	106
1622	Límite	br	1931	120
1703	2 Coelhos	br	2012	108
1724	7 Pecados Rurais	pt	2013	
1751	Lula, o Filho do Brasil	br	2009	128
1855	Assalto ao Banco Central	br	2011	101
1979	Bruna Surfistinha	br	2011	
2021	chega de Saudade	br	2007	92
2026	Chico Xavier	br	2010	124
2096	De Pernas pro Ar 2	br	2012	97
2191	E a Vida Continua...	br	2012	98
2277	Abril Despedaçado	br	2001	105
2459	O Tempo e o Vento	br	2013	115
2567	Tabu	pt	2012	118
2768	Porto da Minha Infância	pt	2001	62
2891	Os Cafajestes	br	1962	100
3510	Francisca	pt	1981	166
4301	Esta Noite Encarnarei no Teu Cadáver	br	1967	108
5165	Por Trás do Pano	br	1999	90
5166	O Primeiro Dia	br	1998	75
5167	Cazuza - O Tempo Não Pára	br	2004	98
5329	Carandiru	br	2003	147
5414	Madame Satã	br	2002	105
5415	O Homem do Ano	br	2003	113
5417	O Maior Amor do Mundo	br	2006	98

filmdb=# SELECT * FROM movies WHERE country = 'us' AND year_released = 2006;				
movieid	title	country	year_released	runtime
310	The Departed	us	2006	151
1272	Night at the Museum	us	2006	108
1273	Happy Feet	us	2006	108
1274	Open Season	us	2006	86
1275	Talladega Nights: The Ballad of Ricky Bobby	us	2006	108
1276	Pirates of the Caribbean: Dead Man's Chest	us	2006	150
1277	X-Men: The Last Stand	us	2006	104
1278	Scary Movie 4	us	2006	83
1279	The Pink Panther	us	2006	93
1280	Big Momma's House 2	us	2006	99
1665	All the King's Men	us	2006	125
1701	16 Blocks	us	2006	110
1745	A Prairie Home Companion	us	2006	106
1758	Cain and Abel	us	2006	91
1799	Alpha Dog	us	2006	117
1814	An Inconvenient Truth	us	2006	97
1842	Apocalypto	us	2006	138
1873	Babel	us	2006	143
1885	Bambi II	us	2006	75
1914	Bella	us	2006	91
1923	Blood Diamond	us	2006	143
1951	Bobby	us	2006	116
1957	Bordertown	us	2006	100
2011	Superman Returns	us	2006	154
2045	Click	us	2006	107
2072	Crank	us	2006	88
2081	Curious George	us	2006	86
2083	DOA: Dead or Alive	us	2006	86
2094	Date Movie	us	2006	87
2119	Døjjø Vu	us	2006	126
2181	Dreamgirls	us	2006	103
2199	Eight Below	us	2006	120
2219	Employee of the Month	us	2006	108
2332	The Devil Wears Prada	us	2006	109
2388	The Holiday	us	2006	136
2427	Little Miss Sunshine	us	2006	101
2802	Lady in the Water	us	2006	109
2915	Inland Empire	us	2006	180
2930	The Fountain	us	2006	96

```

filmdb=# SELECT * FROM movies
filmdb=# WHERE country = 'sp'
filmdb=# AND LOWER(title) NOT LIKE '%a%'
filmdb=# AND LOWER(title) NOT LIKE '%o%';

```

movieid	title	country	year_released	runtime
1985	Buried	sp	2010	95
4229	REC	sp	2007	75
5123	Tesis	sp	1996	125
8013	Intruders	sp	2011	100
8590	Che	sp	2008	257

(5 rows)

```

filmdb=# \encoding UTF8
filmdb=# SELECT * FROM movies
filmdb=# WHERE country in ('cn', 'hk', 'tw', 'mo')
filmdb=# AND year_released BETWEEN 1940 AND 1949;
 movieid | title | country | year_released | runtime
-----+-----+-----+-----+-----
 6335 | Bāqiān Lǐ Lù Yún Hé Yuè | cn | 1947 | 124
 6336 | Lìrén Xíng | cn | 1949 | 102
 7143 | Tiě Shàn Gōngzhǔ | cn | 1941 | 73
 7247 | Ài Lè Zhōngnián | cn | 1949 | 100
 8980 | Xiǎochéng Zhī Chūn | cn | 1948 | 98
 8991 | Wūyā Yǔ Máquè | cn | 1949 | 111
 8992 | Yī Jiāng Chūn Shuǐ Xiàng Dōng Liú | cn | 1947 | 190
 9003 | Wànjiā Dēnghuǒ | cn | 1948 | 121
(8 rows)

filmdb=#

```

```

CREATE TABLE
COMMIT
lab4=# SELECT * FROM people
lab4=# WHERE born <= 1920
lab4=# AND died IS NULL;
 peopleid | first_name | surname | born | died | gender
-----+-----+-----+-----+-----+-----
 340 | Michael | Anderson | 1920 | | M
 824 | Karuna | Bandyopadhyay | 1919 | | F
 2159 | Mary | Carlisle | 1914 | | F
 2358 | Marge | Champion | 1919 | | F
 3384 | Eddie | Davis | 1903 | | M
 3481 | Chandrabati | Debi | 1909 | | F
 3509 | Suzy | Delair | 1917 | | F
 3821 | Kirk | Douglas | 1916 | | M
 5395 | Lee | Grant | 1920 | | F
 8780 | Norman | Lloyd | 1914 | | M
 11462 | Nehemiah | Persoff | 1919 | | M
 11577 | Hu | Ping | 1910 | | F
 14947 | Franca | Valeri | 1920 | | F
 16383 | Olivia | de Havilland | 1916 | | F
(14 rows)

```

```

lab4=#
lab4=# SELECT * FROM alt_titles
lab4=# WHERE title LIKE '%||%';
 titleid | movieid | title
-----+-----+-----
 12 | 1708 | 2061 - An exceptional year
 217 | 6417 | Avoir 20 ans dans les Aurès
 447 | 2074 | 精裝追女仔2004
 498 | 7508 | 20 Once Again
 499 | 7508 | 重返20岁
 711 | 7788 | Doraemon the Movie 2017: Nobita's Great Adventure in the Antarctic Kachi Kochi
 713 | 7790 | Doraemon: Nobita and the Birth of Japan 2016
 940 | 1574 | Pokémon: The Movie 2000
 1222 | 1465 | Jeanne Dielman, 23, Quai du Commerce, 1080 Bruxelles
 1261 | 44 | Jonah Who Will Be 25 in the Year 2000
 1784 | 490 | The 400 Blows
 1803 | 2608 | PMF 5019
 1962 | 9170 | 200 Pounds Beauty
 2149 | 1514 | 1900
 2339 | 3816 | Pirates of the 20th Century
 3086 | 7827 | Evangelion: 1.0 You Are (Not) Alone.
 3088 | 7828 | Evangelion: 2.0 You Can (Not) Advance.
 3236 | 1788 | All's Well, Ends Well 2011
 3315 | 7374 | Aro Bhalobashbo Tomay (2015)
 3336 | 1663 |

```

```

lab4=# SELECT * FROM movies
lab4=# WHERE LOWER(title) ~* '[:<:]man[:>:]';
movieid | title

```

movieid	title	country	year_released	runtime
16	Cicak-man	my	2006	107
125	The Man Who Knew Too Much	gb	1934	75
126	The Man Who Knew Too Much	us	1956	120
168	The Third Man	gb	1949	
220	The Man Who Shot Liberty Valance	us	1962	123
265	A Man for All Seasons	gb	1966	120
301	Rain Man	us	1988	133
436	Dead Man Walking	us	1995	122
586	Little Big Man	us	1970	139
612	Man Hunt	us	1941	105
613	The Man Who Came to Dinner	us	1942	112
614	The Man Who Wasn't There	us	2001	116
615	The Man with the Golden Arm	us	1955	119
664	Odd Man Out	gb	1947	116
709	The Quiet Man	us	1952	129
721	Repo Man	us	1984	92
807	The Thin Man	us	1934	93
971	Iron Man 3	us	2013	130
986	The Amazing Spider-Man 2	us	2014	142
1030	Spider-Man 3	us	2007	139
1038	Spider-Man	us	2002	121
1047	The Miracle Man	us	1919	8
1275	Pirates of the Caribbean: Dead Man's Chest	us	2006	150
1295	Iron Man	us	2008	126
1327	Man of Steel	us	2013	143
1374	The Elephant Man	us	1982	90
1559	The Running Man	us	1987	101
1626	Tarzan, the Ape Man	us	1981	107
1653	The Man Who Fell to Earth	gb	1976	138
1666	O Lucky Man!	gb	1973	184
1677	Man with a Movie Camera	ru	1929	68
1747	A Serious Man	us	2009	106
1748	A Single Man	us	2009	100
1804	The Amazing Spider-Man	us	2012	136
1988	Man on Fire	us	2004	146

```
lab4=# SELECT * FROM people
```

```
lab4=# WHERE born + 100 <= died;
```

peopleid	first_name	surname	born	died	gender
16	George	Abbott	1887	1995	M
872	Richard L.	Bare	1913	2015	M
1149	Bruce	Bennett	1906	2007	M
1689	Carlo Ludovico	Bragaglia	1894	1998	M
1944	George	Burns	1896	1996	M
2523	Liting	Chen	1910	2013	M
2980	Irwin	Corey	1914	2017	M
3016	Diosa	Costello	1913	2013	F
3328	Danielle	Darrieux	1917	2017	F
3513	Jean	Delannoy	1908	2008	M
3897	Paulette	Dubost	1910	2011	F
4242	Carl	Esmond	1902	2004	M
4495	Gwen	Ffrangcon-Davies	1891	1992	F
4622	June	Foray	1917	2017	F
4773	Harold	French	1897	1997	M
5004	Pierre	Gaspard-Huit	1917	2017	M
5189	Lillian	Gish	1893	1993	F
5216	Mary	Glory	1905	2009	F
5418	Lorna	Gray	1917	2017	F
5874	Kathleen	Harrison	1892	1995	F
6353	Bob	Hope	1903	2003	M
7316	Roger	Karl	1882	1984	M
7491	Barbara	Kent	1907	2011	F
7771	Hansi	Knoteck	1914	2014	F
8363	Yvette	Lebon	1910	2014	F
8370	Francis	Lederer	1899	2000	M
9323	Kurt	Maetzig	1911	2012	M
9608	Leslie H.	Martinson	1915	2016	M
10189	Juanita	Moore	1914	2014	F
11982	Luise	Rainer	1910	2014	F
12097	Irving	Rapper	1898	1999	M
12373	Leni	Riefenstahl	1902	2003	F
12428	Hal	Roach	1892	1992	M

```

lab4=# SELECT * FROM people
lab4-# WHERE born + 100 <= died
lab4-# OR (died IS NULL AND born + 100 <= EXTRACT(YEAR FROM CURRENT_DATE));
peopleid | first_name | surname | born | died | gender

```

16	George	Abbott	1887	1995	M
340	Michael	Anderson	1920		M
384	Luciana	Angiolillo	1925		F
665	Charles	Aznavour	1924		M
824	Karuna	Bandyopadhyay	1919		F
872	Richard L.	Bare	1913	2015	M
998	Cate	Bauer	1922		F
1074	Mumtaz	Begum	1923		F
1149	Bruce	Bennett	1906	2007	M
1407	Honor	Blackman	1925		F
1526	Hannelore	Bollmann	1925		F
1628	Michel	Bouquet	1925		M
1689	Carlo Ludovico	Bragaglia	1894	1998	M
1821	Peter	Brook	1925		M
1944	George	Burns	1896	1996	M
2159	Mary	Carlisle	1914		F
2358	Marge	Champion	1919		F
2411	Carol	Channing	1921		F
2523	Liting	Chen	1910	2013	M
2747	Lydia	Clarke	1923		F
2980	Irwin	Corey	1914	2017	M
3008	Valentina	Cortese	1923		F
3016	Diosa	Costello	1913	2013	F
3328	Danielle	Darrieux	1917	2017	F
3384	Eddie	Davis	1903		M
3415	Doris	Day	1922		F
3481	Chandrabati	Debi	1909		F
3509	Suzy	Delair	1917		F
3512	John	Delaney	1908	2008	M

lab4=#

lab4=# SELECT * FROM people

lab4=# WHERE surname LIKE '%''%';

peopleid	first_name	surname	born	died	gender
3217	Luigi Filippo	D'Amico	1924	2007	M
3218	Beverly	D'Angelo	1951		F
3219	James	D'Arcy	1975		M
3220	Ileana	D'Cruz	1987		F
3221	Vincent	D'Onofrio	1959		M
3222	Genelia	D'Souza	1987		F
3449	Jewel	De'Nyle	1976		F
8070	Marcel	L'Herbier	1888	1979	M
8110	Jay	Laga'aia	1963		M
10092		Mo'Nique	1982		F
10222	George	More O'Ferrall	1907	1982	M
10843	Lupita	Nyong'o	1983		F
10851	Dan	O'Bannon	1946	2009	M
10852	Hugh	O'Brian	1925	2016	M
10853	Austin	O'Brien	1981		M
10854	Dylan	O'Brien	1991		M
10855	Edmond	O'Brien	1915	1985	M
10856	George	O'Brien	1899	1985	M
10857	Margaret	O'Brien	1937		F
10858	Pat	O'Brien	1899	1983	M
10859	Richard	O'Brien	1942		M
10860	Virginia	O'Brien	1919	2001	F
10861	Sean	O'Bryan	1963		M
10862	Brian F.	O'Byrne	1967		M
10863	Arthur	O'Connell	1908	1981	M
10864	Jerry	O'Connell	1974		M
10865	Taaffe	O'Connell	1951		F
10866	Carroll	O'Connor	1924	2001	M
10867	Derrick	O'Connor	1941		M
10868	Donald	O'Connor	1925	2003	M
10869	Frances	O'Connor	1967		F

lab4=# SELECT * FROM countries

lab4=# WHERE continent = 'EUROPE'

lab4=# AND country_code LIKE 'c%';

country_code	country_name	continent
cy	Cyprus	EUROPE
cz	Czech Republic	EUROPE
ch	Switzerland	EUROPE

(3 rows)


```
lab4=# SELECT * FROM people
lab4=# WHERE LOWER(LEFT(first_name, 1)) = LOWER(LEFT(surname, 1));
```

peopleid	first_name	surname	born	died	gender
11	Alex	Abbad	1978		M
21	Aleksandr	Abdulov	1953	2008	M
26	Alfred	Abel	1879	1937	M
32	Ary	Abittan	1974		M
34	Alon	Aboutboul	1965		M
42	Andrei	Abrikosov	1906	1973	M
52	Amy	Acker	1976		F
56	Alfred	Adam	1908	1982	M
58	Amy	Adams	1974		F
69	Andrew	Adamson	1966		M
106	Arthur	Agee	1972		M
111	Alejandro	Agresti	1961		M
113	Antonio	Aguilar	1919	2007	M
136	Anouk	Aimée	1932		M
139	Adriana	Aizemberg	1938		F
140	Alexandre	Aja	1978		M
144	Aravind	Akash	1976		M
152	Adeel	Akhtar	1980		M
158	Adewale	Akinnuoye-Agbaje	1967		M
163	Achmed	Akkabi	1983		M
165	Alibaba	Akpobome	1965		M
171	Antonio	Albanese	1964		M
187	Alan	Alda	1936		M
196	Archie	Alemania	1978		M
198	Aki	Aleong	1934		M
199	André	Alerme	1877	1960	M
224	Adrienne	Allen	1907	1993	F
225	Aleisha	Allen	1991		F
226	Alfie	Allen	1986		M
227	Alfred	Allen	1886	1947	M
243	Alexander	Allerson	1930		M
262	Aleksandr	Alov	1923	1983	M
271	Anne	Alvaro	1951		F
291	Alejandro	Amenábar	1972		M
299	Alberto	Ammann	1978		M
315	Allison	Anders	1954		F
317	Asbjørn	Andersen	1903	1978	M
318	Anthony	Anderson	1970		M
364	Anthony	Andrews	1948		M
385	Ambra	Angiolini	1977		F
400	Aziz	Ansari	1983		M

```
lab4=# SELECT 2025 - MAX(born) AS age FROM people;
age
-----
16
(1 row)
```



```

lab4=#
lab4=# SELECT country, COUNT(*)
lab4-#      FROM movies
lab4-#      WHERE country like 'm%'
lab4-#      GROUP BY country;
country | count
-----+-----
mx      |    59
ma      |     2
mn      |     1
ml      |     2
my      |     5
(5 rows)

```

```

lab4=# SELECT COUNT(DISTINCT country)
lab4-#      FROM movies;
count
-----
    85
(1 row)

```

```

lab4=# SELECT MIN(year_released)
lab4-#      FROM movies
lab4-#      WHERE country IN ('cn', 'tw', 'hk');
min
-----
1913
(1 row)

```

```

lab4=# ,
lab4=# SELECT COUNT(*)
lab4-#      FROM movies
lab4-#      WHERE year_released = 2010;
count
-----
   198
(1 row)

```

```
lab4=# SELECT year_released AS year, COUNT(*)
lab4=#       FROM movies
lab4=#       WHERE year_released >= 1960
lab4=#       GROUP BY year_released;
```

year	count
1964	104
1969	87
2008	235
1991	106
1989	80
1974	76
1977	63
1971	100
2017	149
1984	88
1983	74
2009	209
2005	152
1973	85
2013	222
2003	129
2015	204
1990	91
1993	114
2002	132
1979	77
1997	128
2004	167
1980	65
2016	201
2018	8
1970	75

cancel request sent

```
lab4=# SELECT COUNT(*)
lab4=#       FROM movies
lab4=#       WHERE country = 'gb' AND year_released = 1949;
count
```

```
-----
      11
(1 row)
```

```

lab4=# SELECT directors, COUNT(*)
lab4-#       FROM (
lab4(#       SELECT movieid, COUNT(*) AS directors
lab4(#       FROM credits
lab4(#       WHERE credited_as = 'D'
lab4(#       GROUP BY movieid
lab4(#       )
lab4-#       GROUP BY directors
lab4-#       ORDER BY directors;
  directors | count
-----+-----
          1 |   7699
          2 |    361
          3 |     38
          4 |     13
          5 |      7
          6 |      8
         10 |      1
(7 rows)

```

```

lab4=# SELECT COUNT(*) AS total,
lab4-#       COUNT(*) FILTER (WHERE died IS NULL) AS alive,
lab4-#       COUNT(*) FILTER (WHERE died IS NOT NULL) AS dead
lab4-#       FROM people;
 total | alive | dead
-----+-----+-----
 16489 | 10836 |  5653
(1 row)

```

```

lab4=# SELECT MAX(cnt) AS max_count
lab4-#       FROM (
lab4(#       SELECT LOWER(surname), COUNT(*) AS cnt
lab4(#       FROM people
lab4(#       WHERE surname <> ''
lab4(#       GROUP BY LOWER(surname)
lab4(#       );
 max_count
-----
        75
(1 row)

```

```

lab4=# SELECT COUNT(DISTINCT peopleid)
lab4-#       FROM (
lab4(#       SELECT peopleid, movieid
lab4(#       FROM credits
lab4(#       WHERE credited_as IN ('A', 'D')
lab4(#       GROUP BY peopleid, movieid
lab4(#       HAVING COUNT(DISTINCT credited_as) = 2
lab4(# );
count
-----
      276
(1 row)

```

```

lab4=# SELECT ROUND(
lab4(#       100.0 * COUNT(CASE WHEN gender = 'F' THEN 1 END) / NULLIF(COUNT(*), 0)
lab4(#       , 1
lab4(#       ) AS percentage
lab4-#       FROM people;
percentage
-----
      33.7
(1 row)

```

```
lab4=# SELECT country, COUNT(*)
lab4-#      FROM movies
lab4-#      WHERE runtime >= 180
lab4-#      GROUP BY country;
```

country	count
nz	3
ru	9
cn	2
sp	1
cz	1
ro	1
gb	6
se	4
tw	2
ie	1
ar	1
ph	5
ca	1
hu	2
jp	8
pl	3
us	51
tr	1
be	2
de	3
in	49
hk	1
it	5
gr	1
fr	17

(25 rows)