

Results - Lab6

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test1.sql'
country_name | title | year_released
-----+-----+-----
Armenia | Sayat Nova | 1969
Bangladesh | Navāva | 2017
Bangladesh | Vasa 2 | 2017
China | Gong Fu Yu Jia | 2017
China | Jiā Nián Huá | 2017
China | Sān Shēng Sān Shì Shí Lǐ Táo Huā | 2017
China | Xiū Xiū De Tiě Quán | 2017
China | Xī Yóu Fú Yāo Piān | 2017
China | Zeoi1 Lung4 | 2017
China | Zhàn Láng 2 | 2017
Georgia | Monanleba | 1987
Hong Kong | Caak3 Daan2 Zyun1 Gaa1 | 2017
Hong Kong | Hap6 Dou6 Lyun4 Mang4 | 2017
India | Baahubali 2: The Conclusion | 2017
India | Golmaal Again!!! | 2017
India | Guru | 2017
India | Karsandas Pay & Use | 2017
India | Mersal | 2017
India | MOJO | 2017
```

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test2.sql'
country_name | cnt
-----+-----
United States | 4732
China | 200
India | 751
Japan | 287
South Korea | 154
France | 571
Germany | 181
Italy | 273
Russia | 153
United Kingdom | 783
(10 rows)
```

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test3.sql'
```

-----+-----	
Jordan	0.01
Armenia	0.01
Paraguay	0.01
Guatemala	0.01
Ecuador	0.01
Kenya	0.01
Slovenia	0.01
Ghana	0.01
Guinea-Bissau	0.01
Namibia	0.01
Niger	0.01
Estonia	0.01
Croatia	0.01
Bosnia and Herzegovina	0.01
Tunisia	0.01
Zimbabwe	0.01
Oman	0.01
Mongolia	0.01
Algeria	0.02
Burkina Faso	0.02
Libya	0.02
Mali	0.02

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test4.sql'
```

title	year_released
-----+-----	
Gong Fu Yu Jia	2017
Jiā Nián Huá	2017
Sān Shēng Sān Shì Shí Lǐ Táo Huā	2017
Xiū Xiū De Tiě Quǎn	2017
Xī Yóu Fú Yāo Piān	2017
Zeoi ¹ Lung ⁴	2017
Zhàn Láng 2	2017
Běi Jīng Yù Shàng Xī Yǎ Tú Zhī Bù Èr Qíng Shū	2016
Cóng Nǚ De Quǎn Shì Jiè Lù Guò	2016
Dào Mù Bǐ Jì	2016

(10 rows)

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test5.sql'
```

continent	country_name	cnt
-----+-----+-----		
AFRICA	Nigeria	49
AMERICA	United States	4732
ASIA	India	751
EUROPE	United Kingdom	783
OCEANIA	Australia	78

(5 rows)

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test6.sql'
```

China	Li	Gong	9
China	Wen	Jiang	9
China	Chao	Deng	7
China	Bingbing	Fan	7
China	You	Ge	7
China	Xun	Zhou	7
France	Gérard	Depardieu	20
France	Catherine	Deneuve	16
France	Jean	Gabin	13
France	Isabelle	Huppert	13
France	Yves	Montand	13
France	Jeanne	Moreau	13
India	Akkineni Nageswara	Rao	28
India	Shivaji	Ganesan	20
India	Amitabh	Bachchan	19
India	Kamal	Haasan	19
India	S. V. Ranga	Rao	19
India		Savitri	19
Italy	Vittorio	Gassman	15
Italy	Alberto	Sordi	15
Italy	Marcello	Mastroianni	12
United States	Robert	De Niro	46

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test7.sql'
```

China	Chao	Deng	6
China	Bingbing	Fan	6
China	Baihe	Bai	5
China	Jackie	Chan	5
China	Shaofeng	Feng	5
China	Carina	Lau	5
China	Qi	Shu	5
China		Angelababy	4
China	Kun	Chen	4
China	Yun-Fat	Chow	4
China	Andy	Lau	4
China	Tony (Ka-Fai)	Leung	4
China	Gengxin	Lin	4
China	Eddie	Peng	4
China	Dawei	Tong	4
China	Zheng	Xu	4
China	Mi	Yang	4
China	Nan	Yu	4
France	Jean	Dujardin	4
India	Salman	Khan	8
India	Shah Rukh	Khan	8
India		Dev	7

```
[root@iZwz989thjg5p4g6ibyphsZ Lab6]# psql "postgresql://postgres:postgres@127.0.0.1:5432/lab6" -f './test8.sql'
```

China	2010	8	
China	2011	7	-12.5
China	2012	7	0.0
China	2013	14	100.0
China	2014	18	28.6
China	2015	21	16.7
China	2016	13	-38.1
China	2017	7	-46.2
France	2010	9	
France	2011	7	-22.2
France	2012	10	42.9
France	2013	11	10.0
France	2014	9	-18.2
France	2015	10	11.1
France	2016	2	-80.0
France	2017	3	50.0
Germany	2010	1	
Germany	2011	7	600.0
Germany	2012	5	-28.6
Germany	2013	2	-60.0
Germany	2014	3	50.0
Germany	2015	2	-33.3

```
1  SELECT country_name, title, year_released
2  FROM (
3      SELECT c.country_name, m.title, m.year_released,
4             MAX(m.year_released) OVER (PARTITION BY c.country_name)
5             AS most_recent
6      FROM movies m
7      JOIN countries c ON c.country_code = m.country
8      WHERE c.continent = 'ASIA'
9  ) x
10 WHERE year_released = most_recent
11 ORDER BY country_name, title;
```

```
1  SELECT c.country_name, x.cnt
2  FROM (
3      SELECT country, COUNT(*) AS cnt,
4             AVG(COUNT(*)) OVER () AS avg_cnt
5      FROM movies
6      GROUP BY country
7  ) AS x
8  JOIN countries c ON c.country_code = x.country
9  WHERE x.cnt > x.avg_cnt;
```

```

1  ✓ SELECT c.country_name,
2      ROUND(x.films * 100.0 / SUM(x.films) OVER (), 2) AS percent
3  ✓ FROM (
4      SELECT country, COUNT(*) AS films
5      FROM movies
6      GROUP BY country
7  ) x
8  JOIN countries c ON c.country_code = x.country
9  ORDER BY percent;

```

10

```

1  SELECT title, year_released
2      FROM (
3      SELECT title, year_released,
4      RANK() OVER (ORDER BY year_released DESC, title) AS rnk
5      FROM movies
6      WHERE country = 'cn'
7  ) x
8  WHERE rnk <= 10
9  ORDER BY rnk;

```

10

lab7 Lab07 test3.sql

```

1  SELECT continent, country_name, cnt
2      FROM (
3      SELECT continent, country_name, cnt,
4      RANK() OVER (PARTITION BY continent ORDER BY cnt DESC) AS rnk
5      FROM (
6      SELECT c.continent, c.country_name, COUNT(m.movieid) AS cnt
7      FROM countries c
8      JOIN movies m ON m.country = c.country_code
9      GROUP BY c.continent, c.country_name
10     ) x
11     ) y
12  WHERE rnk = 1;

```

13

```

1 SELECT y.country_name, p.first_name, p.surname, y.cnt AS appearances
2 FROM (
3     SELECT x.country_name, x.peopleid, x.cnt,
4           RANK() OVER (PARTITION BY x.country_name ORDER BY x.cnt DESC) AS rnk
5     FROM (
6         SELECT co.country_name, c.peopleid, COUNT(*) AS cnt
7         FROM credits c
8         JOIN movies m ON m.movieid = c.movieid
9         JOIN countries co ON co.country_code = m.country
10        WHERE c.credited_as = 'A'
11              AND co.country_name IN ('China','United States','France','Italy','India')
12        GROUP BY co.country_name, c.peopleid
13     ) x
14 ) y
15 JOIN people p ON p.peopleid = y.peopleid
16 WHERE y.rnk <= 3
17 ORDER BY country_name, appearances DESC, p.surname, p.first_name;
18

```

```

1 SELECT y.country_name, p.first_name, p.surname, y.cnt AS appearances
2 FROM (
3     SELECT x.country_name, x.peopleid, x.cnt,
4           DENSE_RANK() OVER (PARTITION BY x.country_name ORDER BY x.cnt DESC) AS rnk
5     FROM (
6         SELECT co.country_name, c.peopleid, COUNT(*) AS cnt
7         FROM credits c
8         JOIN movies m ON m.movieid = c.movieid
9         JOIN countries co ON co.country_code = m.country
10        WHERE c.credited_as = 'A'
11              AND m.year_released >= 2010
12              AND co.country_name IN ('China','United States','France','Italy','India')
13        GROUP BY co.country_name, c.peopleid
14        HAVING COUNT(*) > 3
15     ) x
16 ) y
17 JOIN people p ON p.peopleid = y.peopleid
18 WHERE y.rnk <= 3
19 ORDER BY country_name, appearances DESC, p.surname, p.first_name;
20

```

```

1 WITH yearly AS (
2     SELECT country, year_released, COUNT(*) AS cnt
3     FROM movies
4     WHERE year_released >= 2010
5     GROUP BY country, year_released
6 ),
7 yearly2 AS (
8     SELECT country, year_released, cnt,
9           LAG(cnt) OVER (PARTITION BY country ORDER BY year_released) AS cnt2,
10          SUM(cnt) OVER (PARTITION BY country) AS tot
11     FROM yearly
12 )
13 SELECT c.country_name, year_released, cnt,
14       ROUND(100.0 * (cnt - COALESCE(cnt2, 0)) / NULLIF(tot, 0), 1) AS percent
15 FROM yearly2 y
16 JOIN countries c ON c.country_code = y.country
17 WHERE tot >= 20
18 ORDER BY c.country_name, year_released;
19

```