

Window Functions

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1.

```
Run | New Tab | JSON | Copy
✓ 2 select c.country_name, m.title, m.year_released
  3 from movies m
  4 join countries c
  5   on c.country_code = m.country
  6 where c.continent = 'ASIA'
  7     and m.year_released = (
  8       select max(m2.year_released)
  9         from movies m2
 10        where m2.country = m.country
 11      )
 12 order by c.country_name, m.title;| 743ms
 13
```

Result(RO) ×
搜索结果集

	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 H	2017
>	China	Xiū Xiū De Tiě QuáN	2017
>	China	Xī Yóu Fú Yāo Piān	2017

2.

```
14 select c.country_name, count(m.title) as cnt
15 from movies m join countries c on c.country_code = m.country
16 GROUP BY c.country_name
17 having count(m.title) > (
18     select avg(count)
19     from (
20         select count(m2.title) as count
21         from movies m2 join countries c2 on c2.country_code = m2.country
22         GROUP BY c2.country_name
23     ) as t
24 )
25 ORDER BY cnt DESC; 31ms
26
```

Result(RO) ×

搜索结果集

国家名称 cnt

	Filter	Filter
>	United States	4732
>	United Kingdom	783
>	India	751
>	France	571
>	Japan	287
>	Italy	273
>	China	200
>	Germany	181

3.



```
✓ 61 select c.country_name, round(100.0 * a.films / sum(a.films) over(), 2) as
  62 pct
  63 from (select country, count(*) as films
  64   from movies
  65   group by country) a
  66   join countries c
  67   on c.country_code = a.country
  68   order by pct;| 28ms
```

Result(RO) ×

搜索结果集 搜索

导出

耗时: 28ms

	Filter	Filter
	country_name	pct
>	Jordan	0.01
>	Armenia	0.01
>	Paraguay	0.01
>	Guatemala	0.01
>	Ecuador	0.01
>	Kenya	0.01
>	Slovenia	0.01
>	Ghana	0.01

4.

```
    ▶ Run | New Tab | JSON | Copy  
✓ 75 select title, year_released  
76 from (select title, year_released,  
77 rank() over (order by year_released desc) rnk  
78 from movies  
79 where country in ('cn','hk')) recent  
80 where rnk <= 10  
81 order by rnk; 10ms
```

Result(RO) ×

搜索结果集

Q

title

▼

year_released

▼

>	Xī Yóu Fú Yāo Piān	2017
>	Zeoī ¹ Lung ⁴	2017
>	Hap ⁶ Dou ⁶ Lyun ⁴ Mang ⁴	2017
>	Zhàn Láng 2	2017
>	Caak ³ Daan ² Zyin ¹ Gaa ¹	2017
>	Sān Shēng Sān Shì Shí Lǐ Táo I	2017
>	Xiū Xiū De Tiě QuáN	2017
>	Gong Fu Yu Jia	2017
>	Jiā Nián Huá	2017

5.

```
✓ 83  ↗ Run | New tab | JSON | Copy
84  select continent, country_name, cnt from
85  (select continent, country_name, cnt, rank() over (partition by continent order by cnt desc) as rnk
86  from (select c.continent, c.country_name, count(m.title) as cnt
87  from movies m join countries c on c.country_code = m.country
88  group by c.continent, c.country_name) as t2
89  where rnk = 1 42ms
```

Result(RO) × 搜索结果集 耗时: 42ms < 1 > Total 5

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

6.

```
Run | New Tab | JSON | Copy
✓ 90 select y.country_name, p.first_name, p.surname, y.cnt as appearances
  91 from (select x.country_name,
  92   x.peopleid,
  93   x.cnt,
  94   rank() over (partition by x.country_name
  95   order by x.cnt desc) as rnk
  96   from (select co.country_name, c.peopleid, count(*) as cnt
  97   from credits c
  98   join movies m
  99   on m.movieid = c.movieid
 100  join countries co
 101  on co.country_code = m.country
 102  where c.credited_as = 'A'
 103  and co.country_name in ('China', 'United States',
 104  'France', 'Italy', 'India')
 105  group by co.country_name, c.peopleid) x) y
 106  join people p
 107  on p.peopleid = y.peopleid
 108  where y.rnk <= 3
 109  order by country_name, appearances desc; 203ms
110
```

Result(RO) ×

搜索结果集



导出



耗时: 2

Q country_name ▲ first_name ▲ surname ▲ appearances ▲

	Filter	Filter	Filter	Filter
>	China	Li	Gong	9
>	China	Wen	Jiang	9
>	China	Chao	Deng	7
>	China	Bingbing	Fan	7
>	China	Xun	Zhou	7
>	China	You	Ge	7

7.

```
112     SELECT y.country_name, p.first_name, p.surname, y.cnt AS appearances
113     FROM (SELECT x.country_name,
114                  x.peopleid,
115                  x.cnt,
116                  RANK() OVER (PARTITION BY x.country_name
117                               ORDER BY x.cnt DESC) AS rnk
118              FROM (SELECT CO.country_name, C.peopleid, COUNT(*) AS cnt
119                    FROM credits C
120                   JOIN movies M
121                  ON M.movieid = C.movieid
122                   JOIN countries CO
123                  ON CO.country_code = M.country
124                 WHERE C.credited_as = 'A'
125                 AND M.year_released >= 2010
126                 AND CO.country_name IN ('China', 'United States',
127                                         'France', 'Italy', 'India')
128              GROUP BY CO.country_name, C.peopleid) X) Y
129     JOIN people P
130      ON P.peopleid = Y.peopleid
131     WHERE Y.rnk <= 3
132     ORDER BY country_name, appearances DESC; 55ms
```

Result(RO) ×

⟳ ⟲ 🔍 搜索结果集



1



↓ 导出



耗时: 55ms

Q country_name ↴ first_name ↴ surname ↴ appearances ↴

	Filter	Filter	Filter	Filter
>	China	Chao	Deng	6
>	China	Bingbing	Fan	6
>	China	Jackie	Chan	5
>	China	Baihe	Bai	5
>	China	Shaofeng	Feng	5
>	China	Qi	Shu	5
>	China	Carina	Lau	5

8.

```
✓ 134 select c.country_name,
135     year_released,
136     year_count,
137     round(100.0*(year_count - previous_year_count)
138           / case previous_year_count
139             when 0 then null
140             else previous_year_count
141             end, 1) || '%' as variation
142   from (select country, year_released,
143             year_count,
144             lag(year_count, 1)
145           over (partition by country
146                  order by year_released) as previous_year_count,
147             sum(year_count)
148           over (partition by country) as country_count
149   from (select country, year_released,
150             count(*) as year_count
151   from movies
152  where year_released >= 2010
153  group by country, year_released) a) b
154 join countries c
155   on c.country_code = b.country
```

Result(RO) ×

搜索结果集



1



导出



耗时: 47ms

Q country_name ▲ year_released ▲ year_count ▲ variation ▲

	Filter	Filter	Filter	Filter
>	China	2010	8	(NULL)
>	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%