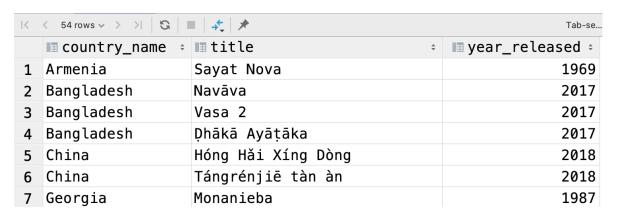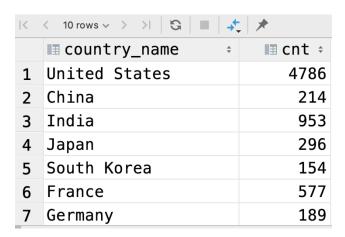# Window Functions

Regular Aggregate functions used as Window functions
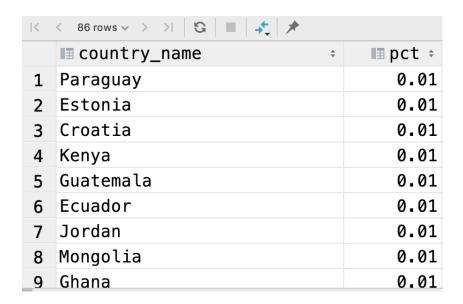
1. **What is the most recent film (title and year) for every Asian country, ordered by country.**

	country_name	title	year_released
1	Armenia	Sayat Nova	1969
2	Bangladesh	Navāva	2017
3	Bangladesh	Vasa 2	2017
4	Bangladesh	Ḍhākā Ayāṭāka	2017
5	China	Hóng Hǎi Xíng Dòng	2018
6	China	Tángrénjiē tàn àn	2018
7	Georgia	Monanieba	1987

54 rows — Tab-se...

2. **Countries in the database with more films than the average, with a common table expression and with a window function**

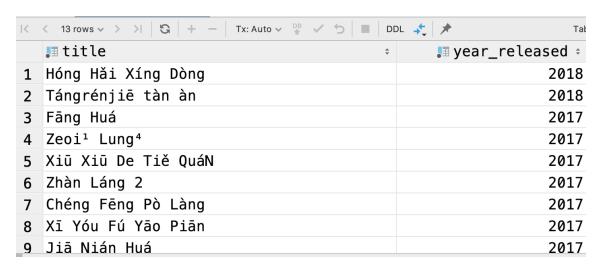|	country_name	cnt
1	United States	4786
2	China	214
3	India	953
4	Japan	296
5	South Korea	154
6	France	577
7	Germany	189

10 rows

3. **Which percentage of the films of the database does every country represent, ordered by increasing percentage? (use a Window function)**

	country_name	pct
1	Paraguay	0.01
2	Estonia	0.01
3	Croatia	0.01
4	Kenya	0.01
5	Guatemala	0.01
6	Ecuador	0.01
7	Jordan	0.01
8	Mongolia	0.01
9	Ghana	0.01

86 rows

Ranking

4. **What are the title and year of the ten most recent films from China?**

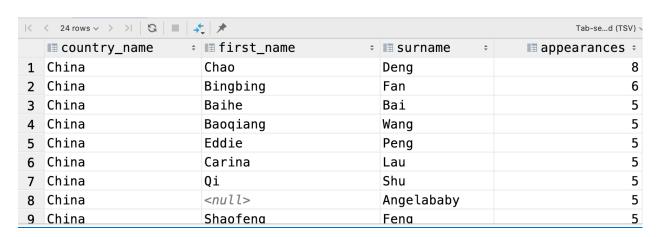|	title	year_released
1	Hóng Hǎi Xíng Dòng	2018
2	Tángrénjiē tàn àn	2018
3	Fāng Huá	2017
4	Zeoi¹ Lung⁴	2017
5	Xiū Xiū De Tiě QuáN	2017
6	Zhàn Láng 2	2017
7	Chéng Fēng Pò Làng	2017
8	Xī Yóu Fú Yāo Piān	2017
9	Jiā Nián Huá	2017

13 rows

5. **What is by continent the country with the most movies in the database.**

	continent	country_name	cnt
1	AFRICA	Nigeria	49
2	AMERICA	United States	4786
3	ASIA	India	953
4	EUROPE	United Kingdom	788
5	OCEANIA	Australia	78

6. **What are, by country, the top three actors that are found most often in films from China, the United States, France, Italy and India**

	country_name	first_name	surname	appearances
1	China	Li	Gong	10
2	China	Chao	Deng	10
3	China	Wen	Jiang	9
4	France	Gérard	Depardieu	21
5	France	Catherine	Deneuve	16
6	France	Isabelle	Huppert	14
7	India	Akkineni Nageswara	Rao	29
8	India	Amitabh	Bachchan	27
9	India	Shah Rukh	Khan	23

15 rows · Tab-se…d (TSV)

7. **Modify the preceding query to get for the same countries the top three actors that have appeared more than 3 times since 2010 (included)**

	country_name	first_name	surname	appearances
1	China	Chao	Deng	8
2	China	Bingbing	Fan	6
3	China	Baihe	Bai	5
4	China	Baoqiang	Wang	5
5	China	Eddie	Peng	5
6	China	Carina	Lau	5
7	China	Qi	Shu	5
8	China	*<null>*	Angelababy	5
9	China	Shaofeng	Feng	5

24 rows · Tab-se…d (TSV)

Other Window functions

8. **For countries for which we have at least 20 films released in 2010 or later, display for each year the year, the name of the country, the number of films, and the percentage variation since the preceding year (use the lag() function)**

	country_name	year_released	year_count	variation
1	China	2010	9	*<null>*
2	China	2011	7	−22.2%
3	China	2012	7	0.0%
4	China	2013	14	100.0%
5	China	2014	19	35.7%
6	China	2015	24	26.3%
7	China	2016	14	−41.7%
8	China	2017	11	−21.4%
9	China	2018	2	−81.8%

97 rows   Tab-se...d (TS