

BONUS: SQL Challenges

Although the 3 questions below can be solved using a combination of Python and Pandas functions, try to come up with the right SQL-query (of course in conjunction with `pd.read_sql()`). The movies database can be found in the graded assignment 2 folder on Canvas.

The output is provided below for each question so that you can check whether you are on the right track. Moreover, the correct queries will be demoed on Monday. The goal of these exercises is to make you familiar with different questions you could answer using SQL. This will be an indispensable skill for coming up with creative questions for your poster in assignment 2, so I highly recommend you to try these challenges before the coming session!

1. Determine the movie titles with the biggest loss (worldwide gross - production budget) by genre of which the movie language was not French, German or Spanish and where the loss was at least 10 million dollar.

	movie_title	genre	profit
0	A Sound of Thunder	Action	-73699549
1	Mars Needs Moms	Adventure	-110450242
2	Town & Country	Comedy	-94635231
3	Home	Documentary	-10379944
4	The Promise	Drama	-79955220
5	Exorcist: The Beginning	Horror	-34042459
6	The Nutcracker in 3D	Musical	-69533984
7	Blackhat	Thriller/Suspense	-50451581
8	The Alamo	Western	-68088638

2. What are the top 3 movies released in 2016 which were not profitable but got the highest IMDB-score?

	movie_title	imdb_score
0	Kicks	7.8
1	They Will Have to Kill Us First	7.7
2	Une Femme Marie	7.4

3. What is the worldwide gross revenue per weekday for Action movies for which the number of Facebook likes is known (i.e. is different than None)?

	Worldwide Gross Revenue	weekday
0	985891707437	6
1	977894193546	4
2	973462004601	5
3	967954823800	0
4	956547395921	3
5	954160378024	2
6	953114144240	1