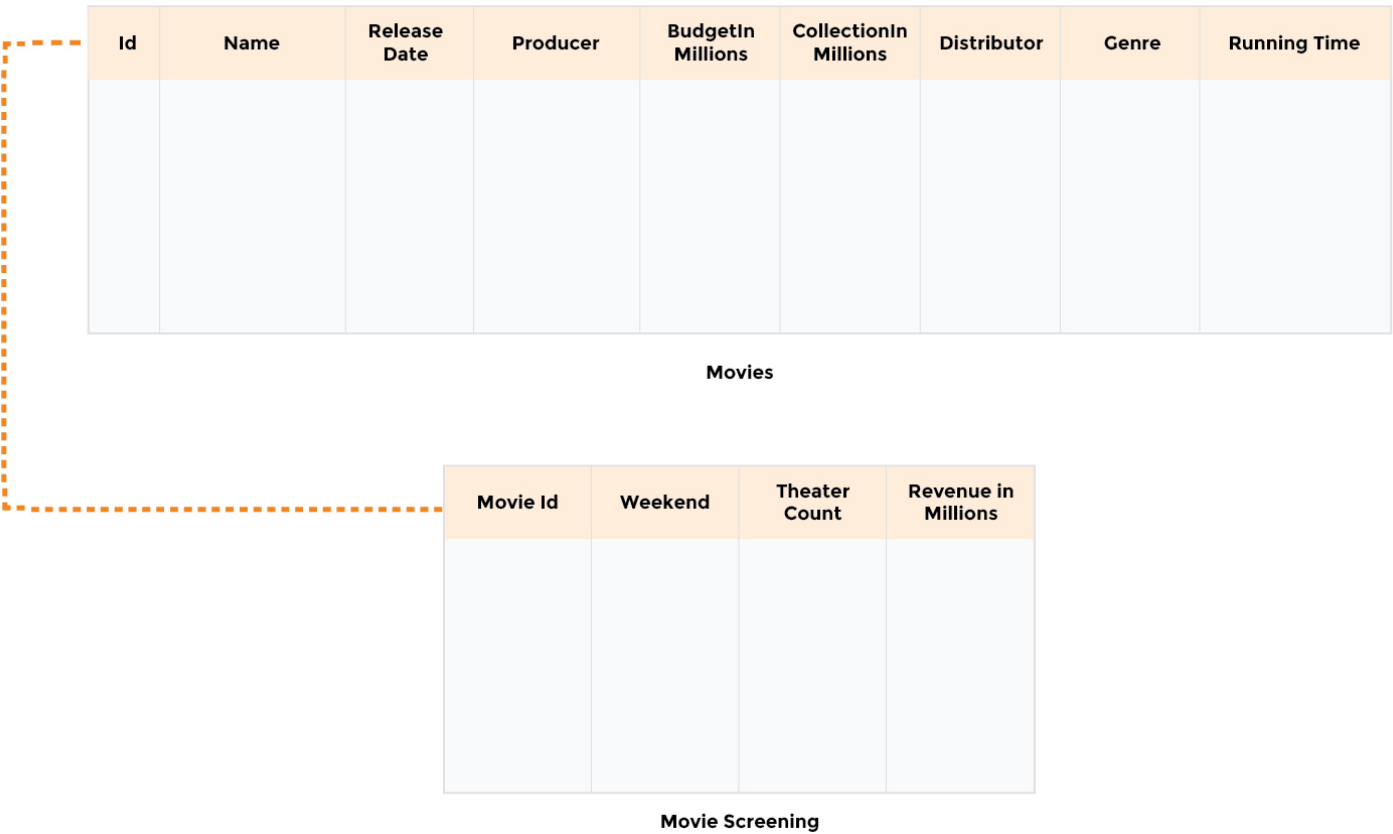


Practice Set 5

This practice set focuses on business analytics functions.

Practice Set 5

For the purpose of demonstrating analytic functions, we added a new **MoviesScreening** table and added some columns to the existing **Movies** table. The relevant portion of the database relationship model is printed below.



Connect to the terminal below by clicking in the widget. Once connected, the command line prompt will show up. Enter or copy and paste the command **./DataJek/Lessons/quiz2.sh** and wait for the MySQL prompt to start-up.

Write and execute queries for the following questions:

1. Calculate the running total of the revenue generated per week for the first 10 weeks for the movie Avengers.

Expected Result:

Date	RevenueInMillions	RunningTotal
2019-04-26	357.115	357.115
2019-05-03	147.383	504.498
2019-05-10	63.299	576.797
...
...

2. Calculate the total revenue of each Genre and find the percentage of revenue of each.

Expected Result:

Genre	TotalRevenueInMillions	%OfTotalRevenues
Action	5105.193	86.28
Thriller	451.187	93.90
Reality Television	300.000	98.97
...
...	...	100.00

3. Calculate the moving average of revenue generated in a three week window for the movie Ocean's 11.

Expected Result:

Weekend	Revenue	3 Week Total	3 Week Avg
2001-12-21	14.716
2001-12-28	16.907
...

4. Find the value of RevenueInMillions at the start of each month for the movie Mr. & Mrs. Smith.

Expected Result:

Date	Month	RevenueInMillions	FirstValue
2005-06-10	6	50.34	50.34
2005-06-17	6	26.04	50.34
...

5. Calculate the monthly growth rate of revenue for the movie Mission Impossible.

Expected Result:

	Total Revenue In	
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Month	Millions	Growth %
7	61.236	0.00
8	80.567	31.57
...