

Now, you will get to practice the concepts you learnt in the [video linked on Quercus](#) by writing three simple relational algebra queries. MarkUs uses a syntax emulating the greek letters and subscripts used in relational algebra. You can find the documentation for it linked on the "Preps" page on Quercus. For now you don't need to read about any operators other than the three you've learned: select, project, and Cartesian product.

MarkUs is picky about attribute names. In this week's exercises, do not rename any attributes (you don't know how to yet, anyway). Use the default names and you'll be fine.

These queries again use the Movies schema. You must answer them using only select, project, and Cartesian product. Use brackets as needed to ensure that the operators are applied in the order that you want.

How to Submit

Enter your answers into **prep2.txt**: your answers should all be placed under the line of ---s. For example, your answers should look as follows:

```
=====
[Q1] The question will be asked here.
-----
ENTER YOUR ANSWER HERE
=====
```

You may run the automated self-tests on MarkUs in order to check the correctness of your answers. To do this, submit your prep2.txt and then click on the "Automated Testing" tab. Click "Run tests": your results should appear after a few minutes.

Movies Schema

Roles(mID, aID, character)

Movies(mID, title, director, year, length)

Artists(aID, aName, nationality)