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Tutorial: Data Manipulation and Data Transformation using the Shell Andreas Schmidt, Steffen Scholz

Exercise III

Tasks:

- 1. Create a working copy of your file city.csv (for security reasons)
- 2. Exchange in the file all occurences of the Province "Amazonas" in Peru (Code PE) with "Province of Amazonas" using sed (inplace).
- 3. Look for entries with the String "ce of Amazonas" it should be only 1!
- 4. Make the same operations using awk.
- 5. Print all cities which have no population given.
- 6. Print the line numbers of the cities in Great Britain (Code: GB) using awk.
- 7. Delete the records 5-12 and 31-34 from city.csv and store the result in city.2.csv using sed.
- 8. Combine the used commands from the last two tasks and write a bash-script (sequence of commands), which delete all british cities from the file city.csv (Hint: generate with awk the commands for sed to delete the corresponding lines)
- 9. Count the datasets (lines) in city.csv it should be 2880
- 10. If you take a look at the files, downloaded from the Gutenberg Project, you can identify some boilerplate text at the begin and the end of the book. Which are the lines, who separate the literary text from the boilerplate text?
- 11. Write a command, which removes the boilerplate text (Hint: use sed, head, tail)