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Tutorial: Powerful Data Analysis and Composition with the UNIX Shell Andreas Schmidt, Steffen Scholz

Exercise III

Tasks:

- 1. Download the file city.csv from the tutorial page (https://www.smiffy.de/icwe-2019) and create a backup copy of your file city.csv.
- 2. Inspect the content of the file.
- 3. Exchange in the file all occurrences of the Province "Amazonas" in Peru (Code PE) with "Province of Amazonas" using sed (inplace).
- 4. Look for entries with the String "ce of Amazonas" it should be only 1! If not, use your backup copy of city.csv and try again ;-)
- 5. Make the same operations using awk.
- 6. Print the names of all cities which have no population given.
- 7. Print the line numbers of the cities in Great Britain (Code: GB) using awk.
- 8. Delete the records 5-12 and 31-34 from city.csv and store the result in city.2.csv using sed.
- 9. 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. Write the sed commands in a file and than execute the file from sed.)
- 10. Count the datasets (lines) in city.csv it should be 2880