

Short test 1
30th October 2025

Assignment

Download all materials from https://cw.fel.cvut.cz/b251/_media/courses/osw/zadani-1.zip.

See image *schema.png* and files *four-thousanders.csv*, *four-thousanders.ttl* and *four-thousanders-schema.ttl*.

File *four-thousanders.ttl* contains list of four thousanders in Alps according to the UIAA criteria. Image *schema.png* shows graphical outline of its data model, file *four-thousanders-schema.ttl* contains RDF schema for that data.

Import data to GraphDB. Use it to work on following tasks:

Task number 1 – 3 points

- For each range, return its highest peak with its elevation and name of the peak to which it is isolated.

Task number 2 – 2 points

- Climbers who ascended the peak are present in data as a list of strings. Edit the schema (*four-thousanders-schema.ttl*) so climber is a standalone entity with properties first name, family name and birth date and add a relation between peak and its first ascender.

Compress edited *file four-thousanders-schema.ttl* and SPARQL queries in files with suffix *.rq* to the ZIP archive and upload to brute.