

About

P03 - BI mini-project is an individual project issues as part of the BI course at VLBA, UOL.

Submission, evaluation and milestones

Please, refer to the information in the "P00 - Requirements (BI mini-project).pdf"

Data

Download your dataset on **uol-bibliography** using the following link:

- <https://cloudstorage.elearning.uni-oldenburg.de/s/K3WzZjoyH5BPMic>

Tasks

- Review the given dataset
 - make sure, that you can access the data
 - check README.md
 - study given dataset
 - make sure, that you understand the value of the data and process behind the data
- Create a **star schema** model for the given dataset
 - identify facts within the dataset (could be multiple)
 - identify respected dimensions
 - make sure that the schema reflects the data and no data get lost
- Create a **database schema**, that is based on the designed schema model
- ETL
 - Extract all relevant data fields from the given dataset
 - Transform extracted all relevant data
 - Import transformed data into created database
- Visualization/KPI
 - design and calculate KPI to insure the import of the data was successful
 - perform tasks (see the section below)
 - calculate KPI (see the section below)

Tasks

- How many publications are published in a week, in a month, in a year?
- Which department has the most publications to offer?
- Who cooperated with other authors the most?
- What are the differences in titles between departments?
- Which publication has the most citations (according to the given dataset)?
- 10 top most authors for year year?
- Create 1 task/business question of your own and answer this question.

KPI

- Unique publications published every month
- Average publication for each department
- Create 1 KPI of your own, describe how to calculate it and put it on the dashboard