

Section B. Practical assignment

You received the following information in several .csv files:

- List of customers with their personal data
- List of accounts that belong to the customers
- List of transactions from/to these accounts

You need to:

- Model the data, so that all information can be stored in a relational database. The choice of data types, indices and relations is upon your decision
- Provide an SQL script to create such database schema
- Populate the schema with the data from the .csv files.
- Provide a query that returns transactions for the users 345 and 1234, aggregated monthly, sorted by month, for the period from 01.2020 till 05.2020:

id_person	month	sum_of_transactions
1234	01.2020	####
1234	02.2020	####
1234	03.2020	####
1234	04.2020	####
1234	05.2020	####
345	01.2020	####
345	02.2020	####
345	03.2020	####
345	04.2020	####
345	05.2020	####

Please note, that these .csv files are extracted manually from the company's data warehouse and they might be malformed. Data inconsistencies might occur.

The resulting report MUST look exactly like shown in the table above in terms of column names and order.

Deliverables:

- Schema creation script (SQL)
- Database population script or ETL project (language or tool of your choice), including all data preparation steps
- SQL query to generate the report