Introduction

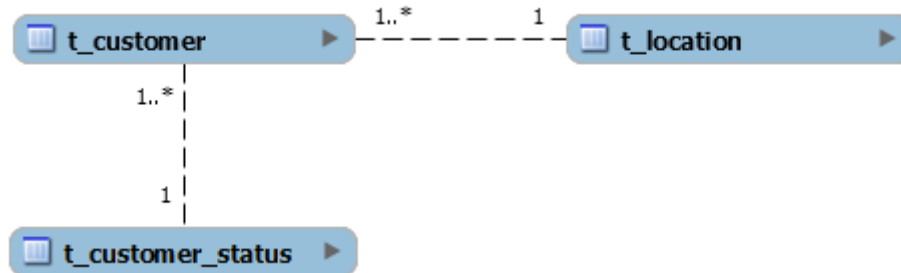The figure shows the SQLite database model of an application with 3 tables and 2 relation-ships:

Figure 1: sql.png

Data must be anonymized before the data can be passed on to a third-party provider for statistical analysis. Before you start, verify the integrity of the downloaded database file in the resource section by calculating and comparing the MD5 checksum.

MD5 (c3-database-initial.db) = d3dea3059021a0b70430e1edbe5b9b4b

Goal and Task

Create a CSV file with the anonymized data of all customers from the database. The CSV file must contain the following columns as header and the processed data in its rows.

Column	Customer Data
gender	Gender from table `t_customer`.
lastname	Masked last name from table `t_customer`. Keep the first 2 characters of the last name and replace any further chracters by exactly 8 hypens (-). Example `Miller` is changed to `Mi--------`.
birthyear	Birthdate from table `t_customer` reduced to the year only. Example `01.01.1999` is changed to `1999`.
zip	Related zip codes from table `t_location` with reduced precision. Reduce precision by keeping the first 2 digits of the zip and replacing the last 2 digits with zeros. Example: `4934` is changed to `4900`.
status	Related and unmodified status from table `t_customer_status` (e.g. PREMIUM).

Figure 2: table3.png

Submission

Submit a ZIP archive containing the CSV file with the anonymized data and a written report as PDF document with a brief technical description of your approach (including information about methods, tools, commands, scripts etc. used).