Exercise 1: Analysis of data
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Task 1:

Data, which has to be saved:

- state

    - id
    - name
    - populations
    - number of seats
    - year of election

- Wahlkreis

    - id
    - name
    - state
    - populations
    - winner
    - year of election

- party

    - id
    - state
    - number of Erststimmen
    - number of Zweitstimmen
    - won Wahlkreise
    - number of seats
    - 5%-Hürde
    - year of election

- Landesliste

    - id
    - party
    - state
    - candidates
    - year of election

- candidate

    - id
    - name
    - Wahlkreis
    - Rank on Landesliste
    - party
    - number of Erststimmen
    - year of election

- citizen / vote

  - id
  - Wahlkreis
  - Erststimme
  - Zweitstimme
  - year of election

Task 2:

Advantages of a DBMS:

- fast and efficient access to all data of all elections
- real-time capability, which is very important for predictions etc.
- capability of managing large data sets, e.g. the votes of all electors
- reduction of manual tasks
- less redundancy
- concurrent transactions

Task 3:

The UML diagram can be found in an external file in the folder 'Abgabe'.