**Exercise 1: Analysis of data**

Delivery: 19.10.2015

Stefan Fritsch, Tabea Schmidt

**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’.