Elector: id, name, sex, birthday, year, wahlkreis

Vote: id, valid1, valid2, year, erststimme, zweitstimme, wahlkreis

Party: id, name, erststimmen, zweitstimmen, wonDistricts, fivePercentTaken, year

FederalLand: id, name, residents, year

Wahlkreis: id, name, residents, year, federalLand, winnerParty, winnerCandidate

Landesliste: id, year, party, federalLand

Candidate: id, name, year, erststimmen, rank, party, wahlkreis, landesliste

RunsForElection: federalLand, party

Primärschlüssel, Fremdschlüssel

create table Elector (

id varchar(15) primary key, /\* evtl. Serial \*/

name varchar(40),

sex char(1) check (sex = ‘m’ or sex = ‘f’),

birthday date not null,

year smallint not null,

wahlkreis smallint references Wahlkreis(id));

create table Vote (

id serial primary key,

valid1 boolean not null,

valid2 boolean not null,

year smallint not null,

erststimme integer references Candidate(id),

zweitstimme integer references Party(id),

wahlkreis smallint references Wahlkreis(id));

create table Party (

id serial primary key,

name varchar(20),

erststimmen integer check (erststimmen >= 0),

zweitstimmen integer check (zweitstimmen >= 0),

wonDistricts smallint check (wonDistricts >= 0),

fivePercentTaken boolean not null,

minority boolean not null,

year smallint not null);

create table FederalLand (

id smallserial primary key,

name varchar(20),

residents integer not null check (residents >= 0),

year smallint not null);

create table Wahlkreis (

id smallserial primary key,

name varchar(20),

residents integer not null check (residents >= 0),

year smallint not null,

federlLand smallint references FederalLand(id),

winnerParty integer references Party(id),

winnerCandidate integer references Candidate(id) );

create table Landesliste (

id serial primary key,

year smallint not null,

party integer references Party(id),

federalLand smallint references FederalLand(id) );

create table Candidate (

id serial primary key,

name varchar(40),

year smallint not null,

erststimmen integer check (erstimmen >= 0),

rank smallint check (rank > 0),

party integer references Party(id),

wahlkreis smallint references Wahlkreis(id),

landesliste integer references Landesliste(id) );

create table RunsForElection (

federalLand smallint references FederalLand(id),

party integer references Party(id) on delete cascade,

primary key (federalLand, party) );