**Registered Voters**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FName | LName | Gender | CNIC | Bdate | Address | RegArea |

**Political Party**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PName | PID | Symbol | Agenda | ProvSeats | NatSeats |

**Candidate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CdID | CdCNIC | PID | ContestSeat | ContestArea |

**Election**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BallotID | Year | VoterCNIC | CdID(MPA) | CdID(MNA) |

**Admin**

|  |  |  |
| --- | --- | --- |
| AdID | AdCNIC | Password |

Registered voters have Name, Gender, CNIC (which is unique to every registered voter) and hence is the primary key, Birthday, Address and the area where they are registered to vote. This is a primary table.

Each Political Party has a Name, a unique ID (hence it is the Primary key), a symbol (which is also unique), have an agenda, and ProvSeats field tells the number of seats won in the provincial govt and NatSeats show the number of seats won in National Assembly.

Candidate table lists candidates from all political parties and, their CNIC, the political party they belong to, the seat for which they are contesting (e.g MPA or MNA) and the area from which they are contesting e.g PK-110. CdCNIC is a foreign key which references CNIC in the registered voters table and PID is another foreign key which references PID in political party table.

Election table contains lists of ID of all ballot papers that were used to cast votes and have the CNIC of the voter and the candidate Id of the candidates he/she voted for. Voter CNIC is a foreign key which references CNIC in the registered voters table and CdID(MNA) and CdID(MPA) are foreign keys that reference CdID in candidate table. Each ballot has a unique ID and that ID is the primary key for this table

Admin table contains the AdminID, Passwords and the CNIC for all registered admins for the database and AdCNIC also references register voter CNIC attribute as every person of age has the right to vote. Admin ID is the primary key for the table.