Criminal Records

Jurisdiction

Nature of

Offense

FIR Number

<u>FIR</u>

<u>Number</u>

FIRs filed against a candidate

Candidate <u>ID</u> **Educational Qualification**

Educational

Qualifications

Converting to 2CNF model:

- To convert a 1CNF model to 2CNF we have to remove partial dependencies from the model.
- We remove Aadhar No as a primary key from Citizens, Voters and Candidates and make it a candidate key. This resolves the partial dependencies in the respective tables since the 2 attributes in the primary key (the id of the table and aadhar) are individually unique to all non prime attributes.
- In the table Member of Parliaments, we remove the MP_id attribute since a partial dependency (MP_id, Candidate Id-> Term Start Date,
 Term End Date) and (Candidate_id -> Mp_id)exists in the table.Also attribute Candidate ID can identify term start date and term end date, hence we decompose the relation into Member of Parliament and a new relation Tenure with Candidate ID as PK and Term start date,
 Term end date.
- In criminal records of a candidate, we have a partial dependency
 Candidate ID, FIR Number with a partial dependency FIR Number ->
 Nature of offense, Jurisdiction hence we decompose into two relations one being criminal records and a new relation FIRS filed against a candidate with Candidate ID, FIR Number