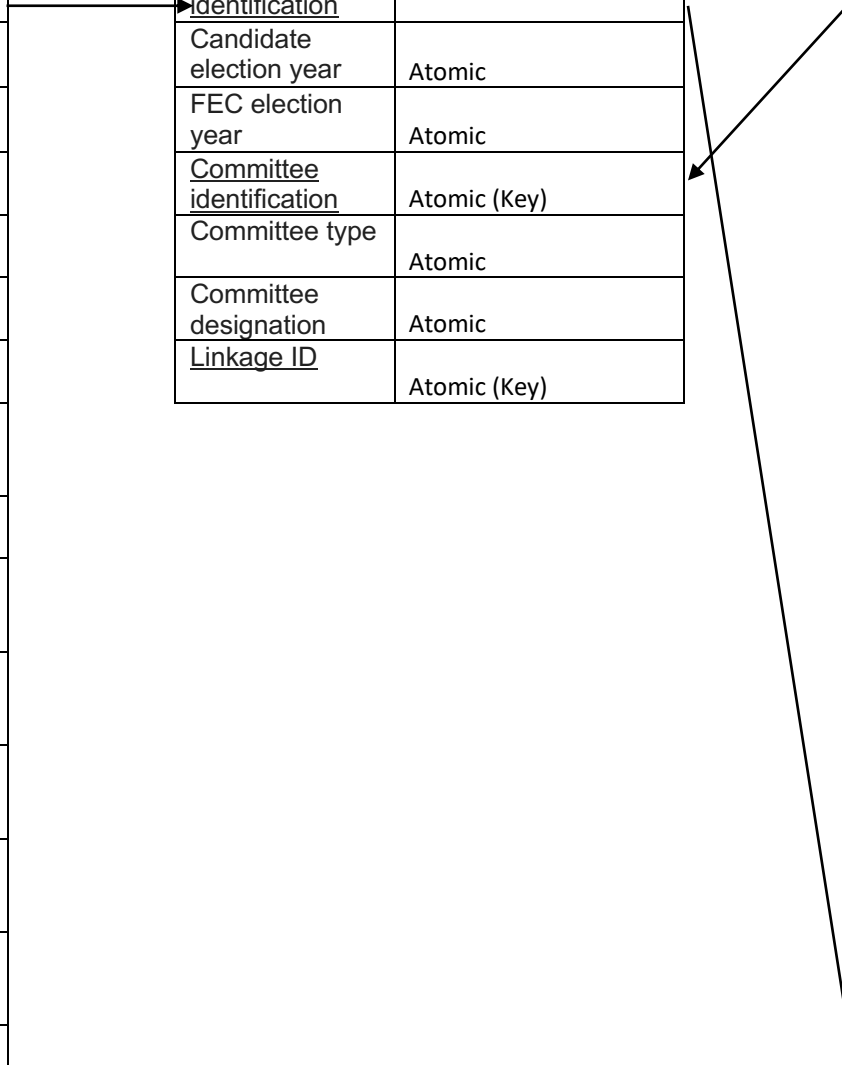


CANDIDATE	
Field Name	Type
<u>Candidate identification</u>	Atomic (Primary Key)
Candidate name	Multi-valued
Party affiliation	Atomic
Year of election	Atomic
Candidate state	Atomic
Candidate office	Atomic
Candidate district	Atomic
Incumbent challenger status	Atomic
Candidate status	Atomic
Principal campaign committee	Atomic
Mailing address - street	Atomic
Mailing address - street2	Atomic
Mailing address - city	Atomic
Mailing address - state	Atomic
Mailing address - ZIP code	Atomic

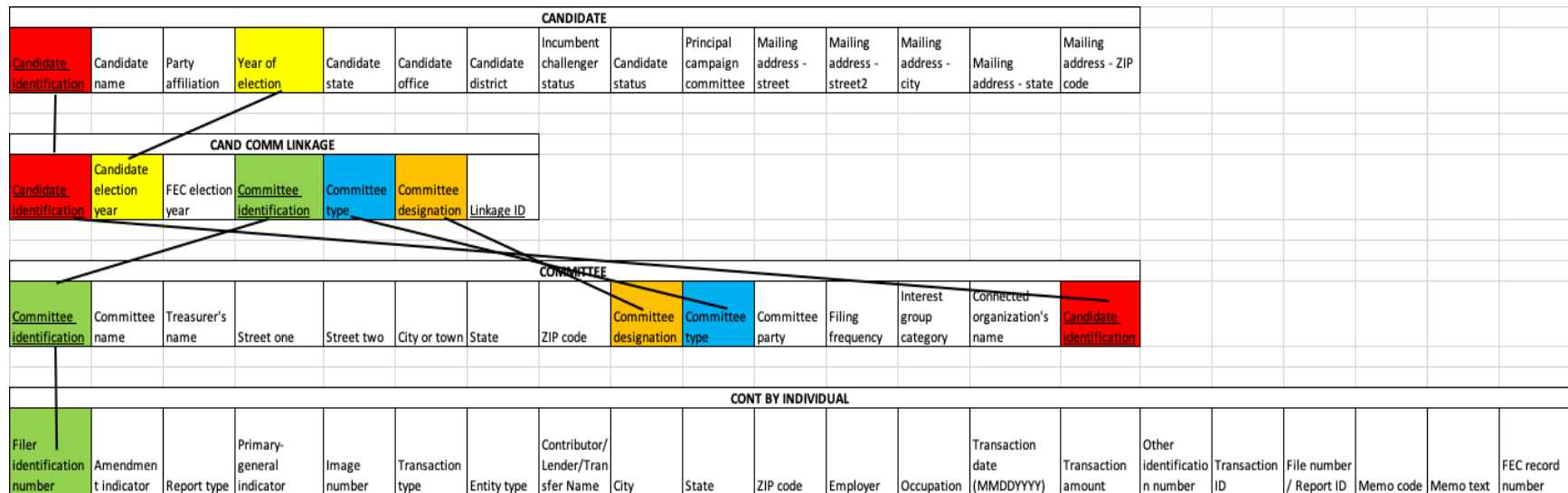
CAND COMM LINKAGE	
Field Name	Type
<u>Candidate identification</u>	Atomic (Key)
Candidate election year	Atomic
FEC election year	Atomic
<u>Committee identification</u>	Atomic (Key)
Committee type	Atomic
Committee designation	Atomic
<u>Linkage ID</u>	Atomic (Key)

COMMITTEE	
Field Name	Type
<u>Committee identification</u>	Atomic (Key)
Committee name	Atomic
Treasurer's name	Atomic
Street one	Atomic
Street two	Atomic
City or town	Atomic
State	Atomic
ZIP code	Atomic
Committee designation	Atomic
Committee type	Atomic
Committee party	Atomic
Filing frequency	Atomic
Interest group category	Atomic
Connected organization's name	Atomic
<u>Candidate identification</u>	Atomic (Key)



Cont By Individual	
Field Name	Field Type
Filer identification number	Atomic
Amendment indicator	Atomic
Report type	Atomic
Primary-general indicator	Atomic
Image number	Atomic
Transaction type	Atomic
Entity type	Atomic
Contributor/Lender/Transfer Name	Atomic
City	Atomic
State	Atomic
ZIP code	Atomic
Employer	Atomic
Occupation	Atomic
Transaction date (MMDDYYYY)	Atomic
Transaction amount	Atomic
Other identification number	Atomic
Transaction ID	Atomic
File number / Report ID	Atomic
Memo code	Atomic
Memo text	Atomic
<u>FEC record number</u>	Atomic (Key)

2. Relational Database schema



3.

The data dictionary file provided is expansive and contains lot of fields. These are necessary for the vast amount of information that the FEC has to track. There are unique fields which make identifying the data pretty staight forward such as candidate ID, committee ID or record number. The data is well organized and by reading the file, relationships and attributes can be easily discerned. Due to the scope of the dictionary some entities seem to have excessive information as only 3 entities are being tracked, when more entities are taken into consideration such as the all candidate financial summary more attributes come into the spotlight and their use can be seen. To improve the database the naming of fields could be standardized and make sure the same field name is name throughtout each entity and table. Some extra attributes can be grouped such as address into a composite type to improve efficiency. Unneeded attributes can be eliminated such as zip code could be used to lookup the city and state of the candidate/committee or individual.