BCNF Decomposition

1. F=
   1. **Zip\_Code** -> City, Place, Type, Area\_Code, ALand, AWater, Lat, Long, Mean, Median, Stdev, ***countyName, schoolCode***
   2. **Parcelid** -> bathroomcnt, bedroomcnt, sqft, garagecarcnt, latitude, longitude, lotsizesqft, regionidzip, numstories, yearbuilt, price, ***cityZip***
   3. **County** -> Violent crime, Murder, Rape, Robbery, Aggravated assault, Property crime, Burglary, Larceny-theft, Motor vehicle theft, Arson, Total law, Crimesperofficer
   4. **CD Code** -> District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg\_API, ***cName***

R = **parcelid,** bathroomcnt, bedroomcnt, sqft, garagecarcnt, latitude, longitude, lotsizesqft, numstories, yearbuilt, price, ***cityZip,*** **County**, Violent crime, Murder, Rape, Robbery, Aggravated assault, Property crime, Burglary, Larceny-theft, Motor vehicle theft, Arson, Total law, Crimesperofficer, **CD Code**, District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg\_API, ***cname*, Zip\_Code,** City, Place, Type, Area\_Code, ALand, AWater, Lat, Long, Mean, Median, Stdev, ***countyName, schoolCode***

R3

R2

**parcelid,** bathroomcnt, bedroomcnt, sqft, garagecarcnt, latitude, longitude, lotsizesqft, numstories, yearbuilt, price, ***cityZip,*** **County, CD Code**, **Zip\_Code,** City, Place, Type, Area\_Code, ALand, AWater, Lat, Long, Mean, Median, Stdev, ***countyName, schoolCode***

**CD Code** -> District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg\_API, ***cName***

**CD Code**, District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg\_API, ***cname***

R2

R1

**County** -> Violent crime, Murder, Rape, Robbery, Aggravated assault, Property crime, Burglary, Larceny-theft, Motor vehicle theft, Arson, Total law, Crimesperofficer

**parcelid,** bathroomcnt, bedroomcnt, sqft, garagecarcnt, latitude, longitude, lotsizesqft, numstories, yearbuilt, price, ***cityZip,*** **County, CD Code**, District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg\_API, ***cname*, Zip\_Code,** City, Place, Type, Area\_Code, ALand, AWater, Lat, Long, Mean, Median, Stdev, ***countyName, schoolCode***

**County**, Violent crime, Murder, Rape, Robbery, Aggravated assault, Property crime, Burglary, Larceny-theft, Motor vehicle theft, Arson, Total law, Crimesperofficer