

BCNF Decomposition

1. F=

- a. **Zip_Code** -> City, Place, Type, Area_Code, ALand, AWater, Lat, Long, Mean, Median, Stdev, *countyName*, *schoolCode*
- b. **Parcelid** -> bathroomcnt, bedroomcnt, sqft, garagecarcnt, latitude, longitude, lotsizesqft, regionidzip, numstories, yearbuilt, price, *cityZip*
- c. **County** -> Violent crime, Murder, Rape, Robbery, Aggravated assault, Property crime, Burglary, Larceny-theft, Motor vehicle theft, Arson, Total law, Crimesperofficer
- d. **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*

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

R1

R2

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*

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

R2

R3

CD Code, District, Street, City, Zip, Phone, Ext, AdmFName, AdmLName, AdmEmail, avg_API, *cName*

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*