## DS 3000 project database information

To create a database, run the boston\_housing\_import.py function in the import database folder with an updated path and the years you wish to include (2004-2023)

The database has two tables. PID in the Assessment table is a Foreign Key of PID in the Building table. With all years included, the database takes up around 189mb.

#### **Building table:**

<u>PID {Primary Key}</u>: Unique 10-digit parcel number. First 2 digits <u>are the ward</u>, digits 3 to 7 are the parcel, and digits 8 to 10 are the sub-parcel.

st\_num: street number (360)

st name: street name (huntington)

st name suf: street suffix (av)

<u>zipcode</u>: A **four-digit** code of the parcel's location. The first digit (0 in new england) was cut off as a leading zero— I'm working on fixing this bug but it seems to be uniform so we can always add it back in when doing analysis in the interim.

#### Assessment table:

<u>PID {Partial Primary Key, Foreign key}:</u> Unique 10-digit parcel number. First 2 digits <u>are the ward</u>, digits 3 to 7 are the parcel, and digits 8 to 10 are the sub-parcel. Foreign key of PID in building table.

vear {Partial Primary Key}: The year the assessment was completed in

LV: the value of the land under the building (USD)

BV: the value of the building itself (USD. Market value is LV+BV)

lu: the land use of the property. Key is below

land sf: Amount of square feet of land

gross area: sum of all areas on all floors of a building

Num floor: number of floors.

## **Example query:**

This guery would return the average market value per year for Northeastern's zip code (2115).

```
SELECT year, AVG(market_value) AS average_market_value
FROM (
   SELECT a.year, (a.bv + a.lv) AS market_value
   FROM assessments a
   INNER JOIN buildings b ON a.PID = b.PID
   WHERE b.zipcode = '2115'
) AS subquery
GROUP BY year;
```

# Land Use (lu) property key

# Commercial/Industrial:

AH: Agricultural/Horticultural

C: Commercial I: Industrial

CC: Commercial condominium

#### Residential:

R1: Residential 1-family R2: Residential 2-family R3: Residential 3-family

R4: Residential 4 or more family

CD: Residential condominium unit A: Residential 7 or more units

RC: Mixed use (residential and commercial)

## Other/no value/land:

CM: Condominium main (no value)

CL: Commercial land (can have building value, not really useful though) RL: Residential land (can have building value, not really useful though)

CP: Condo parking (no land value)

EA: Tax-exempt (121A - redevelopment corporations)

E: Tax-exempt (governments, universities, etc)