

Homework 1: DQR on NY Property Data

Section 1: Data Summary

The dataset contained comprehensive data pertaining to the city of New York property tax filings. It is provided by the Department of Finance and is owned by NYC open data. The dataset covers one assessment period for the year 2010/2011. It contains 32 fields and 1,070,994 records. There is one record for each property containing information such as but not limited to property characteristics, assessed property tax value, owner name, and location.

Section 2: Summary Tables

a. Numeric Table

| | % Populated | Min | Max | Mean | Stdev | % Zero |
|-----------------|-------------|---------|---------------|---------|------------|--------|
| LTFRONT | 100 | 0 | 9,999 | 37 | 74 | 16 |
| LTDEPTH | 100 | 0 | 9,999 | 89 | 76 | 16 |
| STORIES | 95 | 1 | 119 | 5 | 8 | 0 |
| FULLVAL | 100 | 0 | 6,150,000,000 | 874,265 | 11,582,431 | 1 |
| AVLAND | 100 | 0 | 2,668,500,000 | 85,068 | 4,057,260 | 1 |
| AVTOT | 100 | 0 | 4,668,308,947 | 227,238 | 6,877,529 | 1 |
| EXLAND | 100 | 0 | 2,668,500,000 | 36,424 | 3,981,576 | 46 |
| EXTOT | 100 | 0 | 4,668,308,947 | 91,187 | 6,508,403 | 40 |
| BLDFRONT | 100 | 0 | 7,575 | 23 | 36 | 21 |
| BLDDEPTH | 100 | 0 | 9,393 | 40 | 43 | 21 |
| AVLAND2 | 26 | 3 | 2,371,005,000 | 246,236 | 6,178,963 | 0 |
| AVTOT2 | 26 | 3 | 4,501,180,002 | 713,911 | 11,652,529 | 0 |
| EXLAND2 | 8 | 1 | 2,371,005,000 | 351,236 | 10,802,213 | 0 |
| EXTOT2 | 12 | 7 | 4,501,180,002 | 656,768 | 16,072,510 | 0 |
| YEAR | 100 | 2010/11 | 2010/11 | N/A | N/A | 0 |

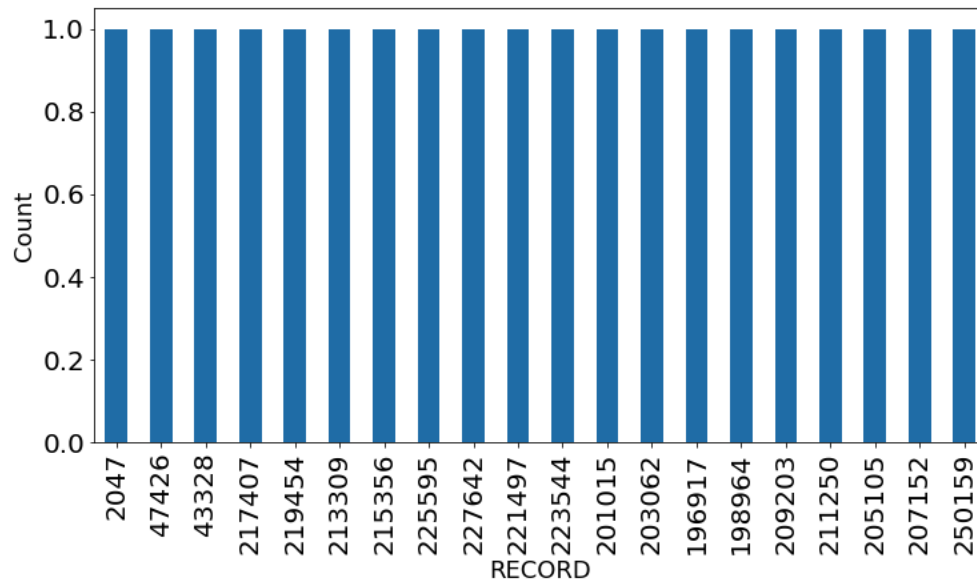
b. Categorical Table

| | % Populated | # Unique Values | Most Common Value |
|-----------------|-------------|-----------------|-----------------------|
| RECORD | 100 | 1070994 | 1 |
| BBLE | 100 | 1070994 | 1000010101 |
| BORO | 100 | 5 | 4 |
| BLOCK | 100 | 13984 | 3,944 |
| LOT | 100 | 6366 | 1 |
| EASEMENT | 0 | 12 | E |
| OWNER | 97 | 863347 | PARKCHESTER PRESERVAT |
| BLDGCL | 100 | 200 | R4 |
| TAXCLASS | 100 | 11 | 1 |
| EXT | 33 | 3 | G |
| EXCD1 | 60 | 129 | 1,017 |
| STADDR | 100 | 839280 | 501 SURF AVENUE |
| ZIP | 97 | 196 | 10,314 |
| EXMPTCL | 1 | 14 | X1 |
| EXCD2 | 9 | 60 | 1,017 |
| PERIOD | 100 | 1 | FINAL |
| YEAR | 100 | 1 | 2010/11 |
| VALTYPE | 100 | 1 | AC-TR |

Section 3: Exploratory Data Analysis

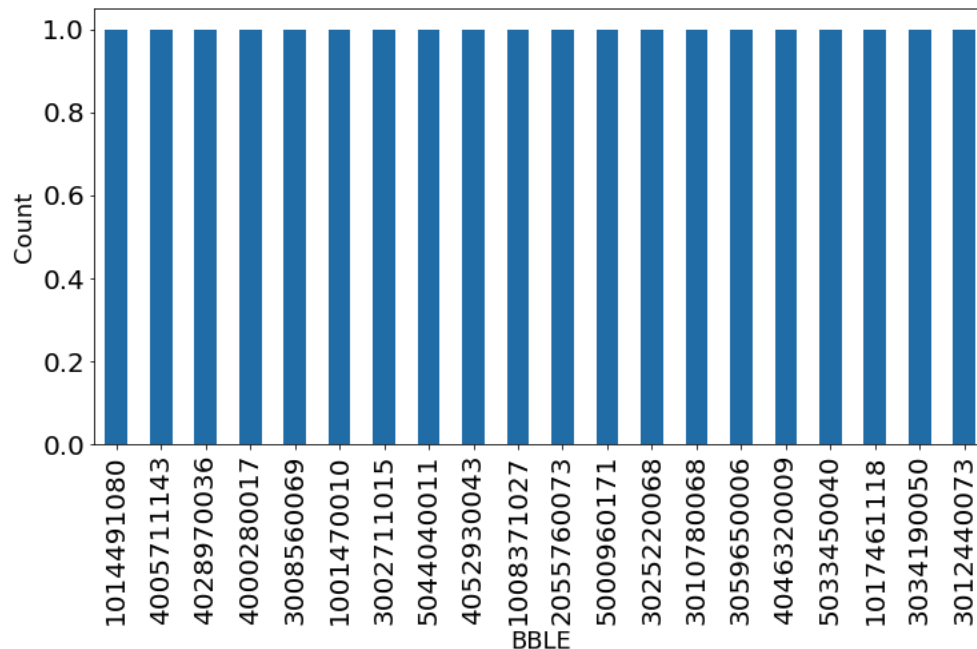
a. RECORD

- i. Description: Record is a unique indicator for each property in the dataset.
- ii. Picture



b. BBLE

- i. Description: File key referring to BORO, BLOCK, EASEMENT, LOT
- ii. Picture

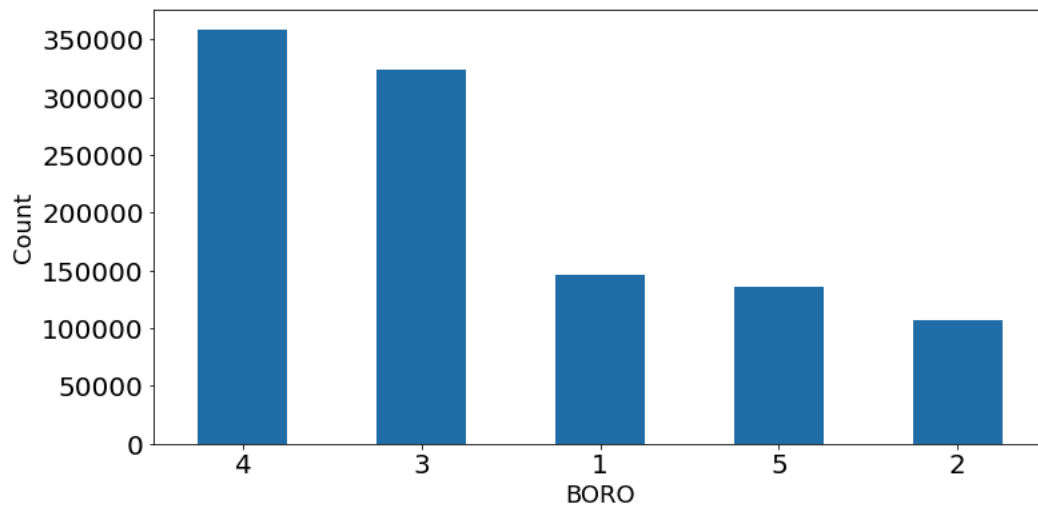


c. BORO

i. Description: BORO indicates which of the 5 Boroughs of NY the property is located in.

- 1 = Manhattan
- 2 = Bronx
- 3 = Brooklyn
- 4 = Queens
- 5 = Staten Island

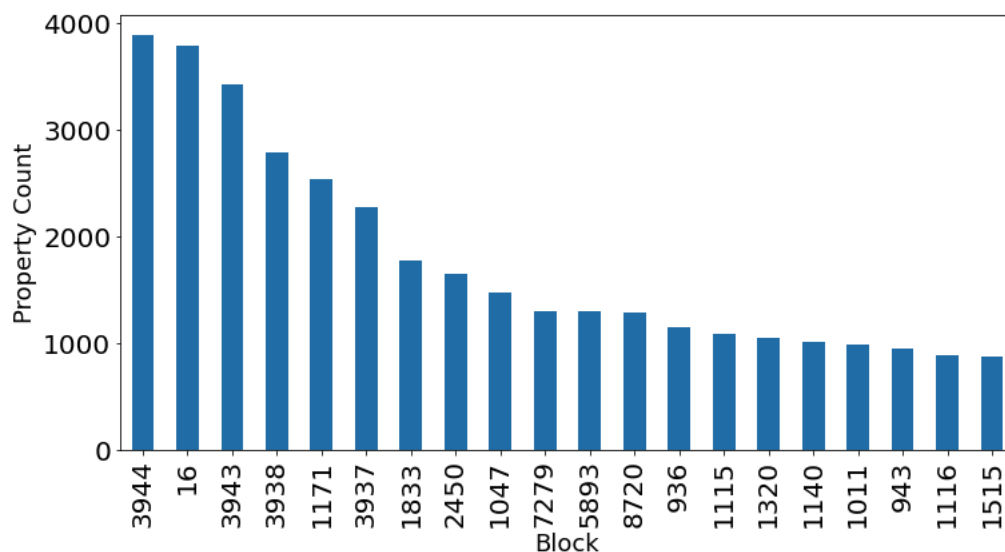
ii. Picture

**d. BLOCK**

i. Description: Block pertains to block ranges per Borough.

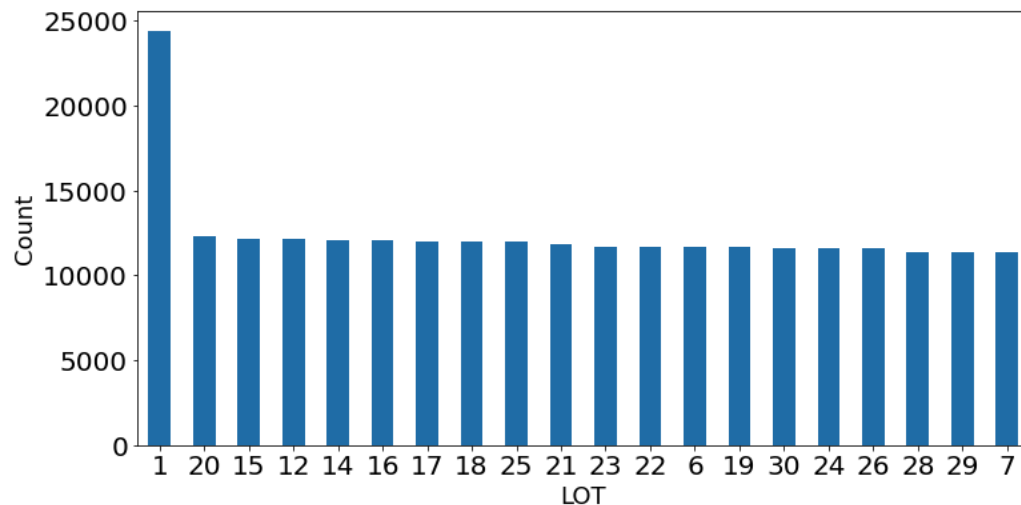
- Manhattan: 1 to 2255
- Bronx: 2260 to 5958
- Brooklyn: 1 to 8955
- Queens: 1 to 16350
- Staten Island: 1 to 8050

ii. Picture

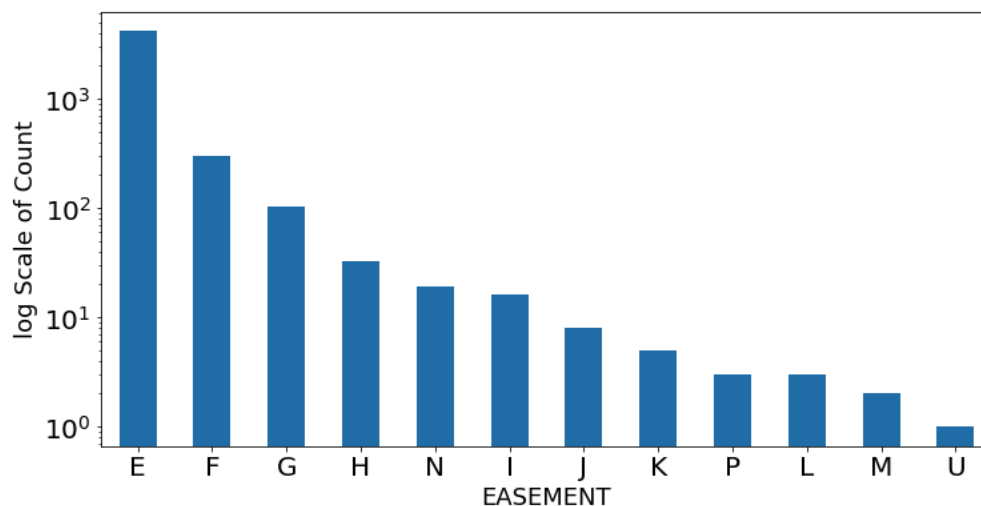


e. LOT

- i. Description: LOT is a label for the lot number of the property.
- ii. Picture

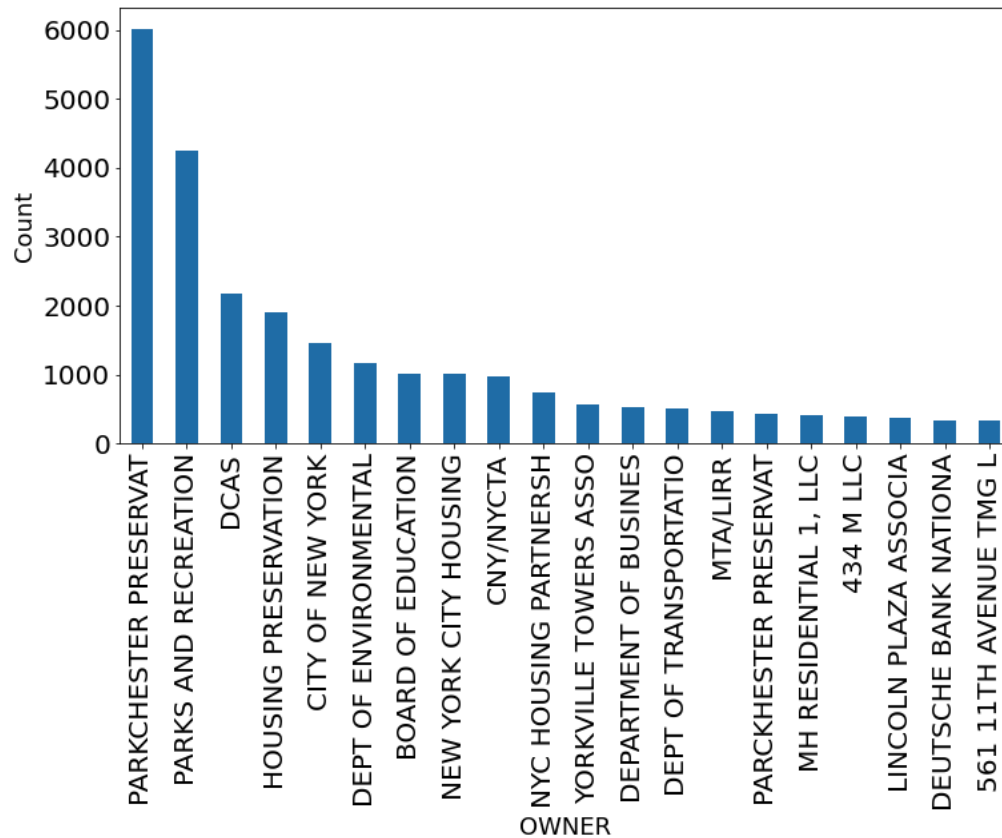
**f. EASEMENT**

- i. Description: Easement gives a person or entity the right to access property that's owned by someone else for a limited and specific purpose.
 - Space = No Easement
 - A = Air Easement
 - B = Non-Air Rights
 - E = Land Easement
 - F Thru M are duplicates of E
 - N = Non-Transit Easement
 - P = Pier
 - R = Railroad
 - S = Street
 - U = U.S. Government
- ii. Picture

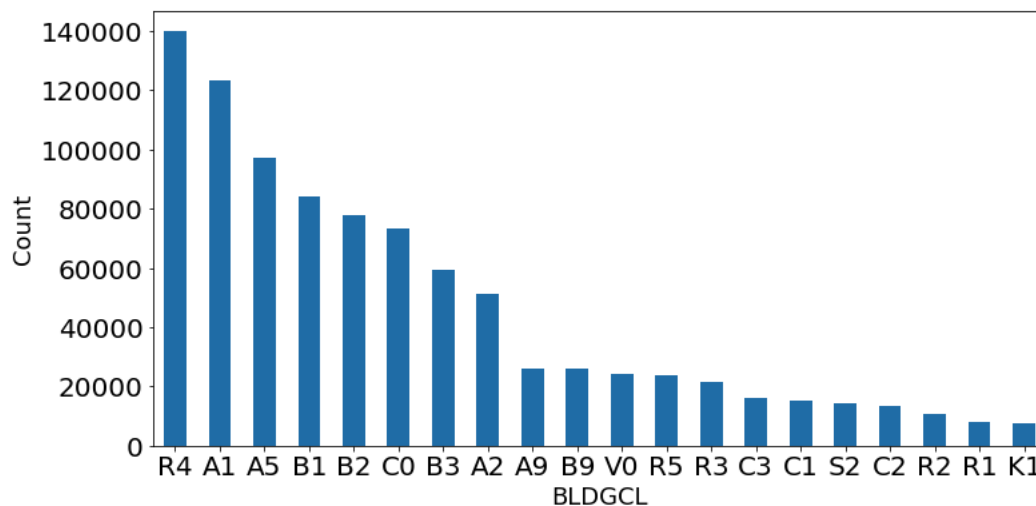


g. OWNER

- i. Description: This field lists the owner of the property.
- ii. Picture

**h. BLDGCL**

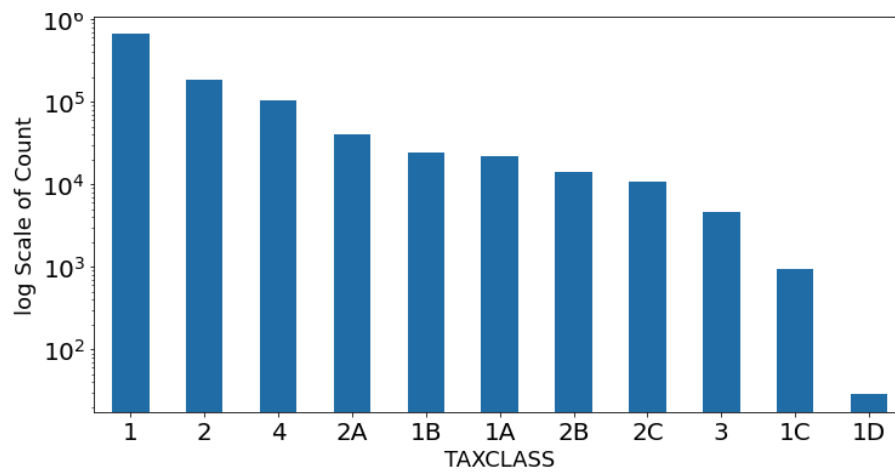
- i. Description: This field refers to building class of the property.
- ii. Picture



i. TAXCLASS

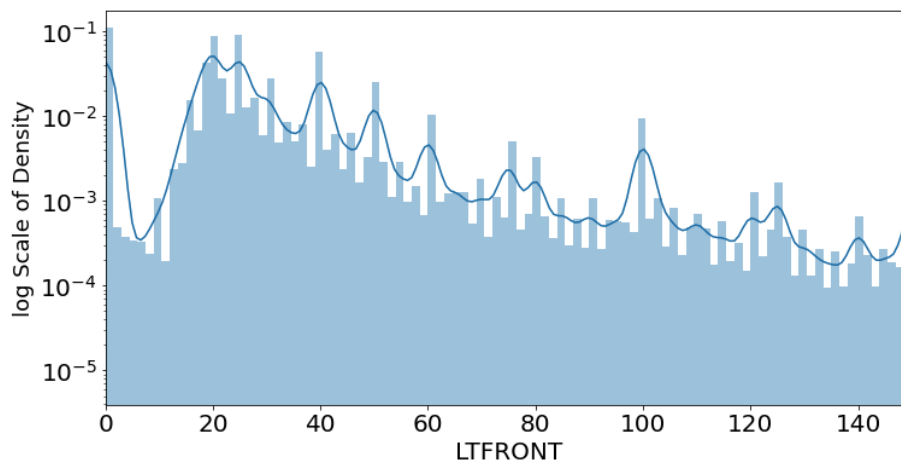
i. Description: This refers to the tax class that the property falls under.

ii. Picture

**j. LTFRONT**

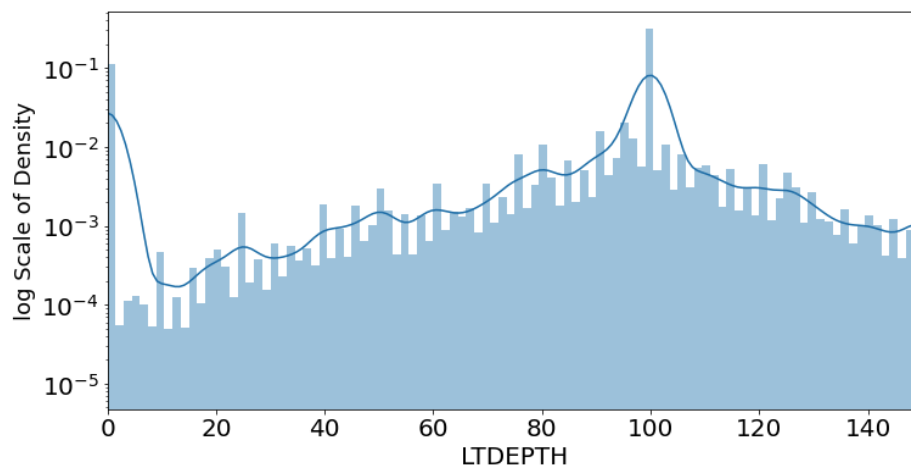
i. Description: LTFRONT refers to the property lot width.

ii. Picture

**k. LTDEPTH**

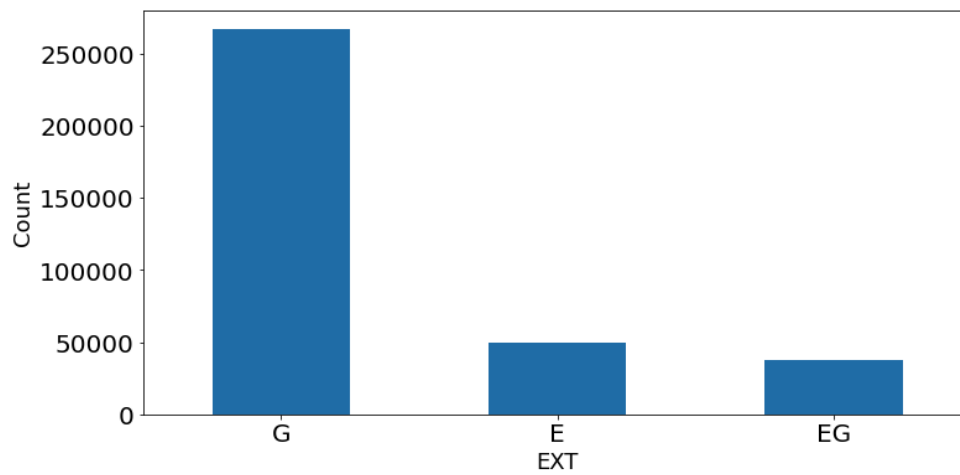
i. Description: LTDEPTH refers to the lot depth.

ii. Picture

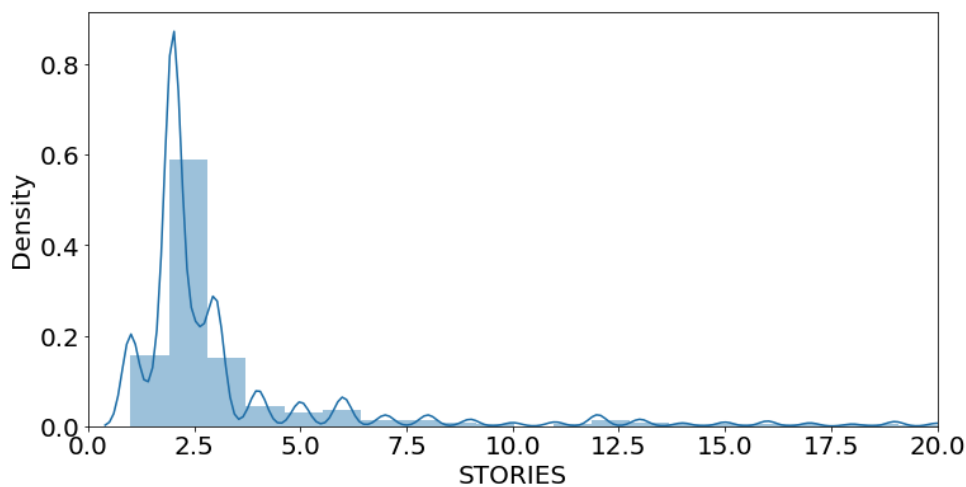


I. EXT

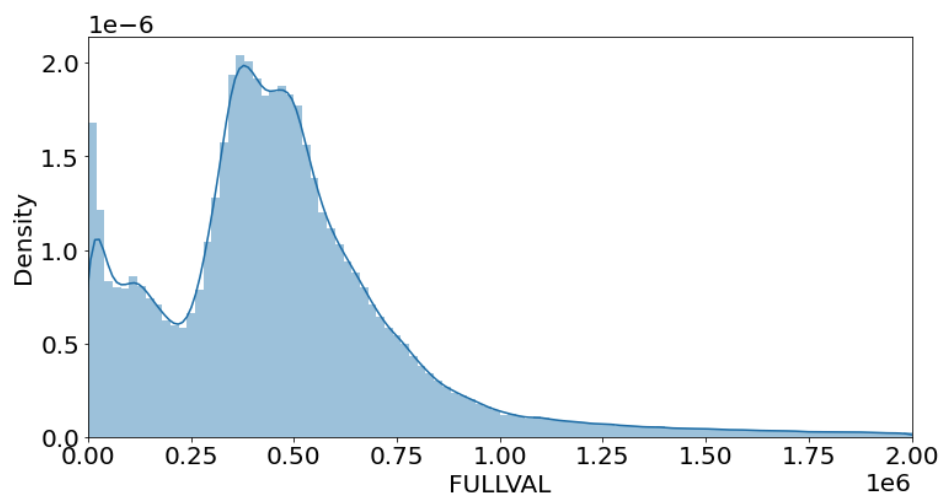
- i. Description: EXT refers to extension indicator.
- ii. Picture

**m. STORIES**

- i. Description: STORIES refers to the number of stories in the building
- ii. Picture

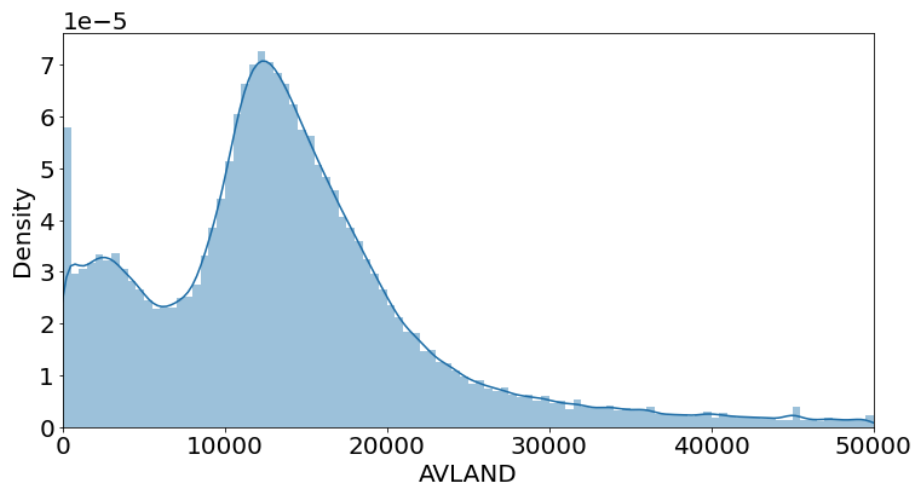
**n. FULLVAL**

- i. Description: FULLVAL refers to the market value of the property
- ii. Picture

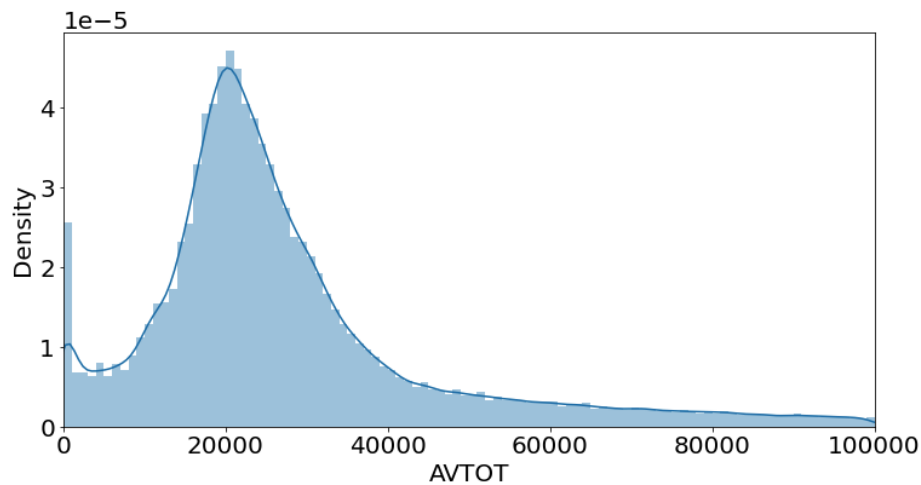


o. AVLAND

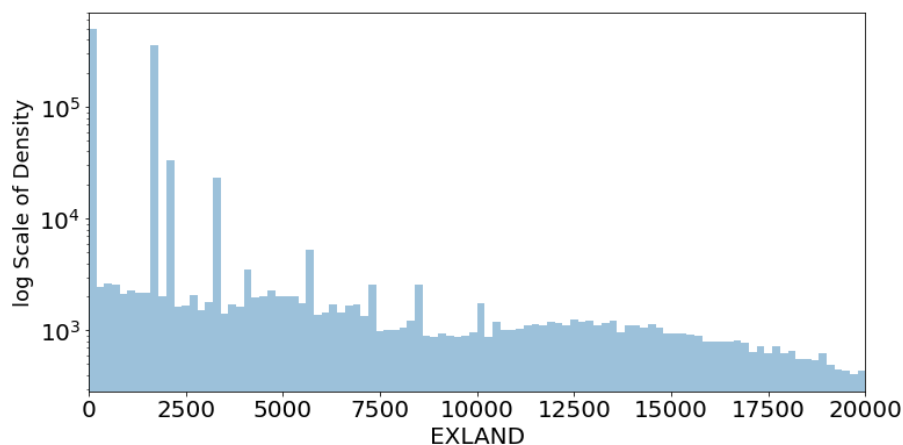
- i. Description: AVLAND refers to the actual land value of the property.
- ii. Picture

**p. AVTOT**

- i. Description: AVTOT refers to the total property value.
- ii. Picture

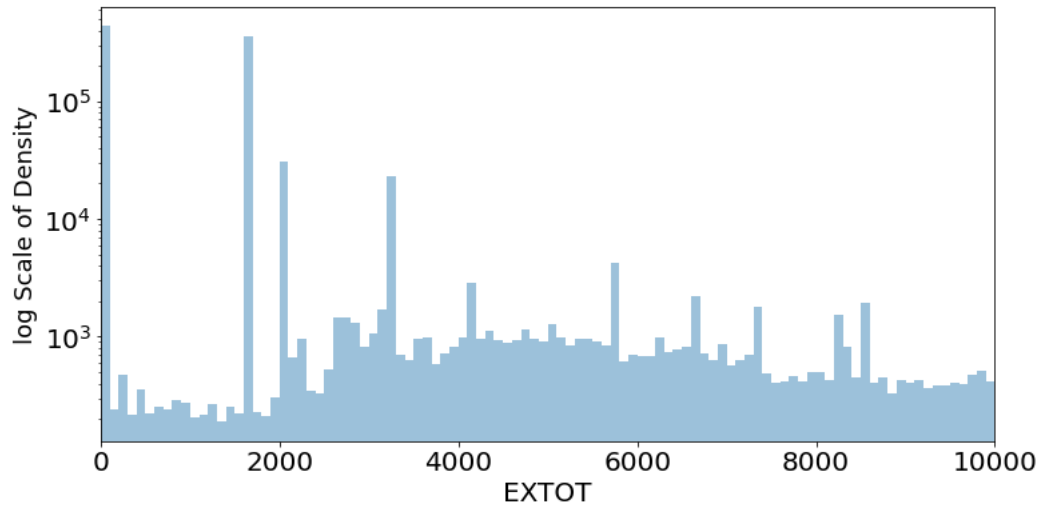
**q. EXLAND**

- i. Description: EXLAND refers to the actual exempt land value.
- ii. Picture

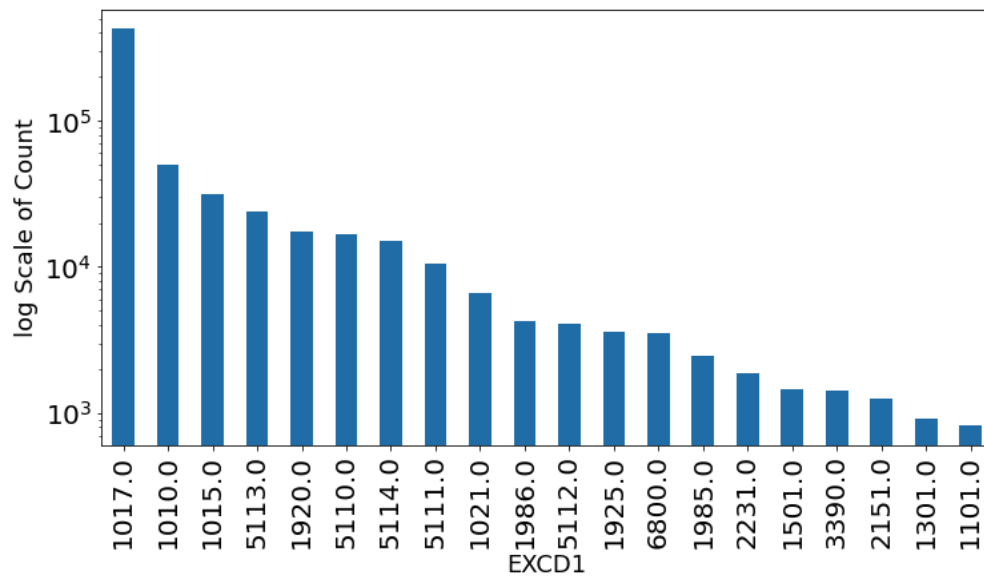


r. EXTOT

- i. Description: EXTOT refers to the actual exempt land total.
- ii. Picture

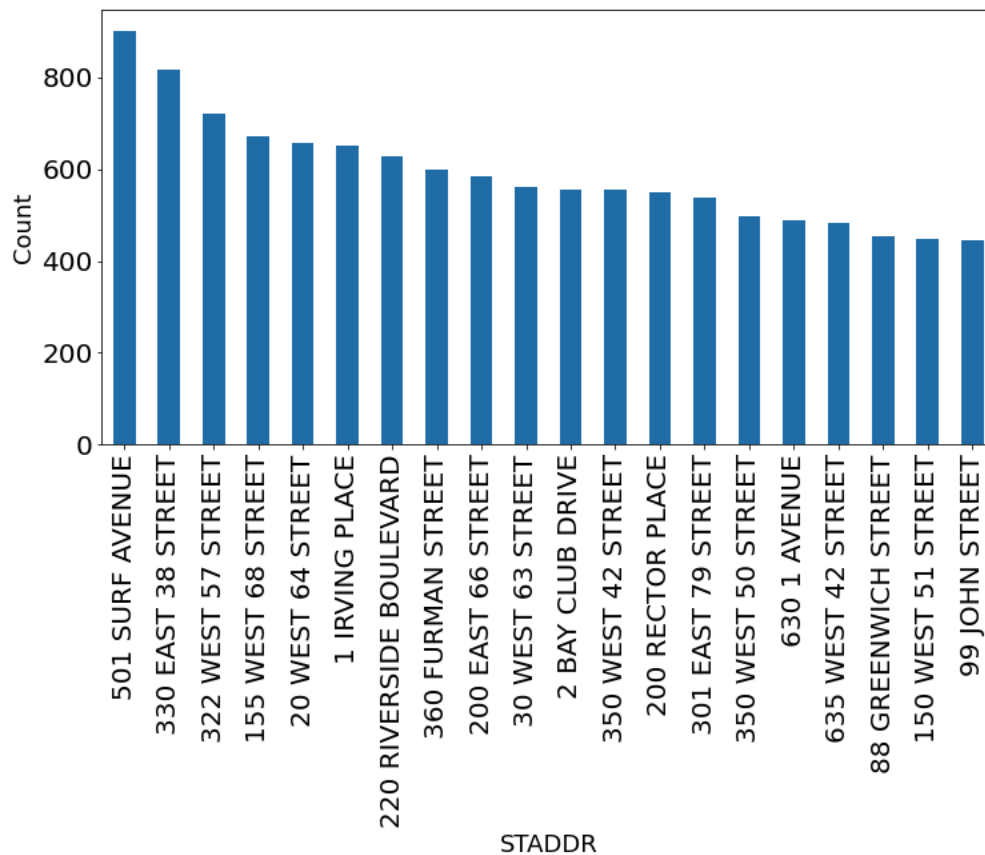
**s. EXCD1**

- i. Description: EXCD1 refers to exemption code 1.
- ii. Picture

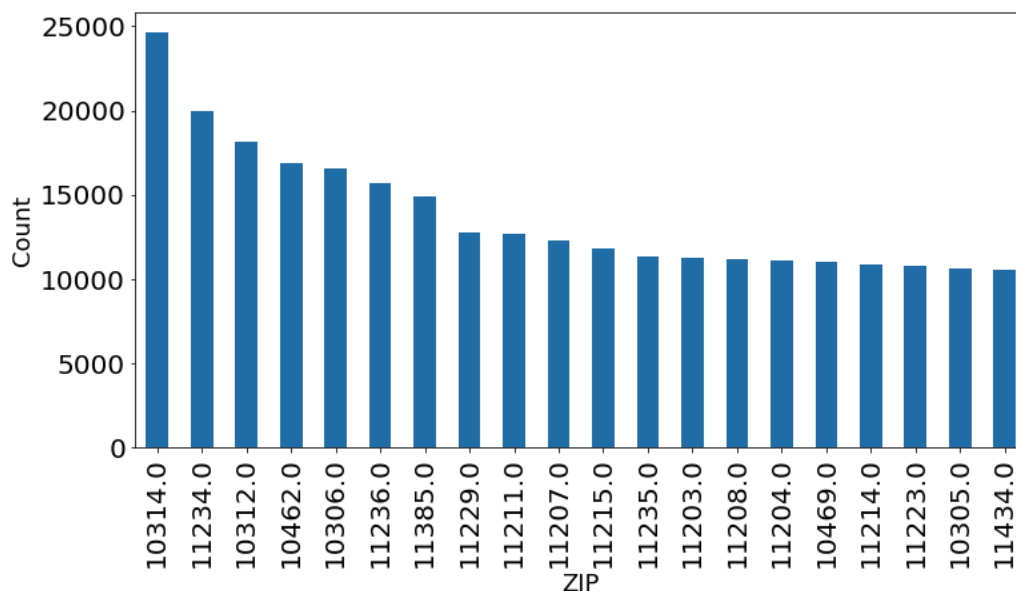


t. STADDR

- i. Description: STADDR refers to the street address of the property.
- ii. Picture

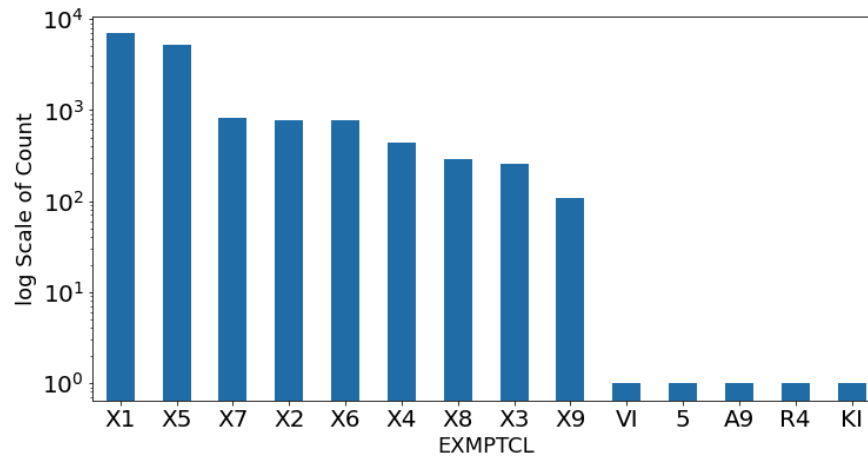
**u. ZIP**

- i. Description: ZIP refers to the zip code in which the property is in.
- ii. Picture

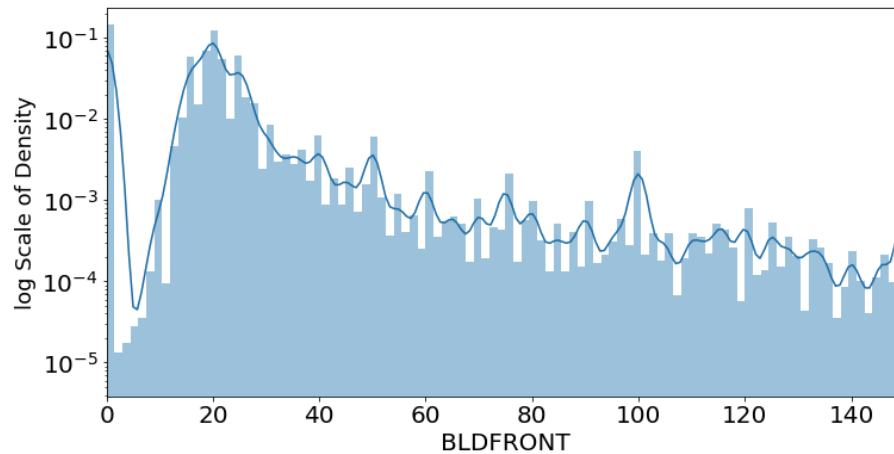


v. EXMPTCL

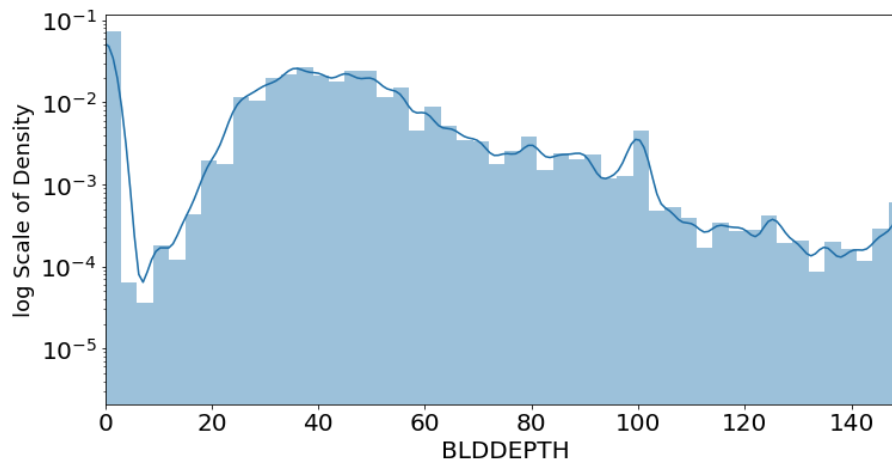
- i. Description: EXMPTCL refers to the exemption class of the property.
- ii. Picture

**w. BLDFRONT**

- i. Description: BLDFRONT refers to building width.
- ii. Picture

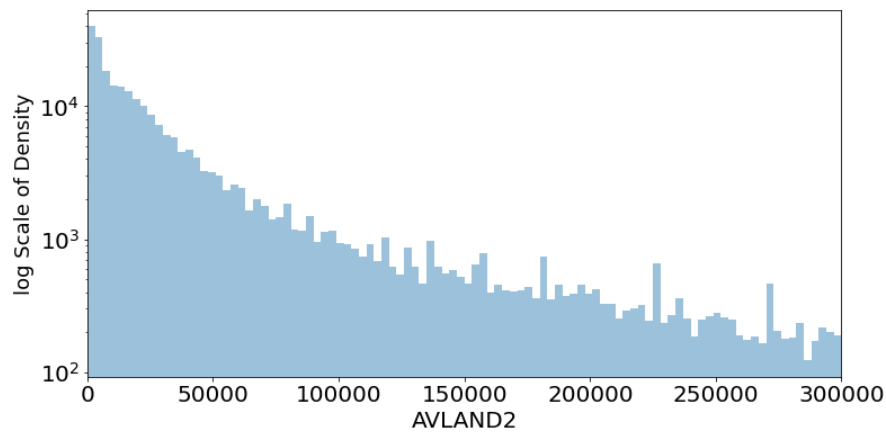
**x. BLDDEPTH**

- i. Description: BLDDEPTH refers to the building depth.
- ii. Picture

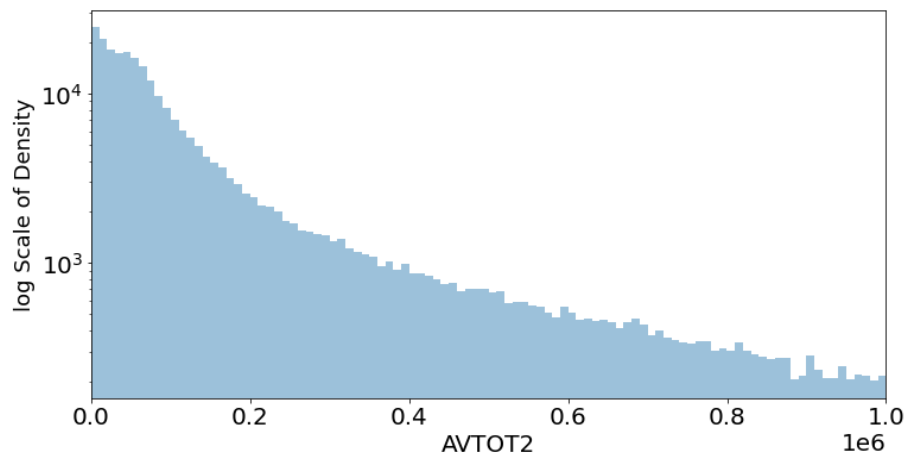


y. AVLAND2

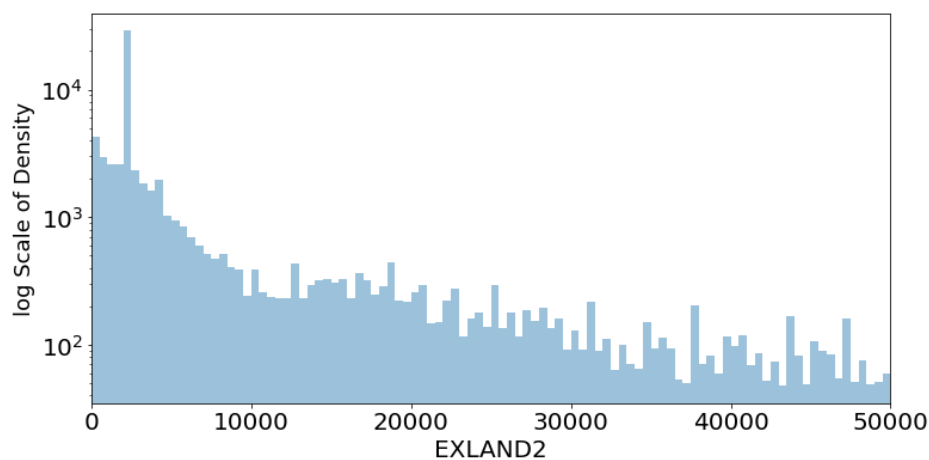
- i. Description: AVLAND2 refers to the transitional land value.
- ii. Picture

**z. AVTOT2**

- i. Description: AVTOT2 refers to the transitional total value.
- ii. Picture

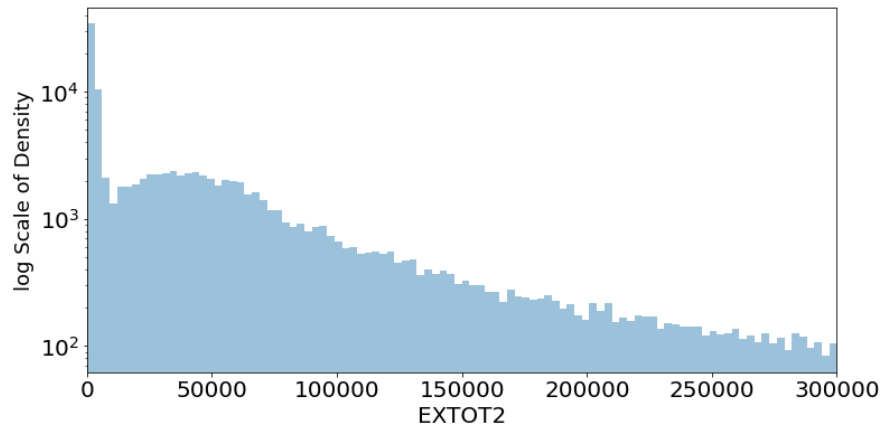
**aa. EXLAND2**

- i. Description: EXLAND2 refers to the transitional exemption land value.
- ii. Picture

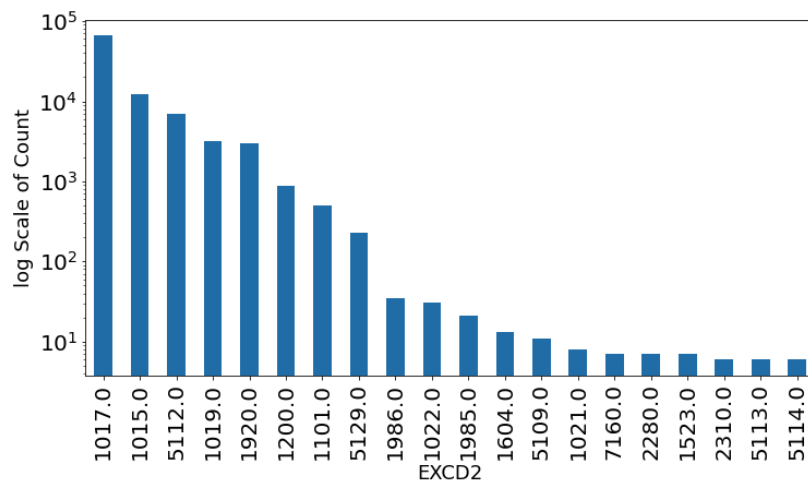


bb. EXTOT2

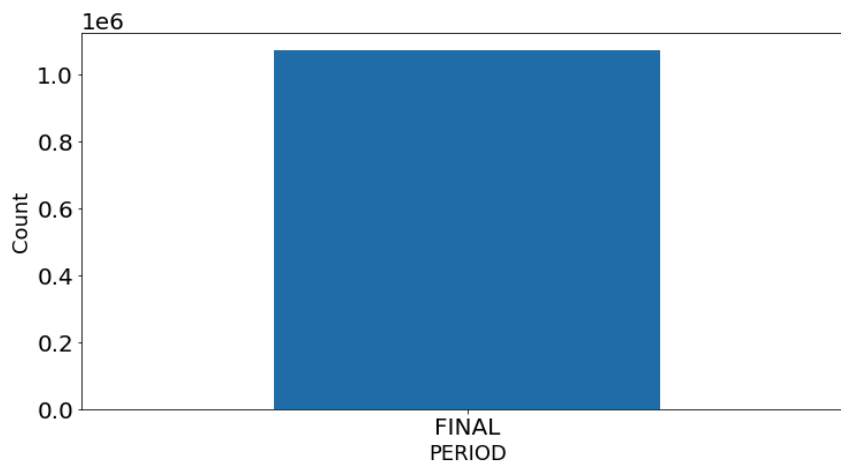
- i. Description: EXTOT2 refers to the transitional exemption land total.
- ii. Picture

**cc. EXCD2**

- i. Description: EXCD2 refers to the exemption code 2.
- ii. Picture

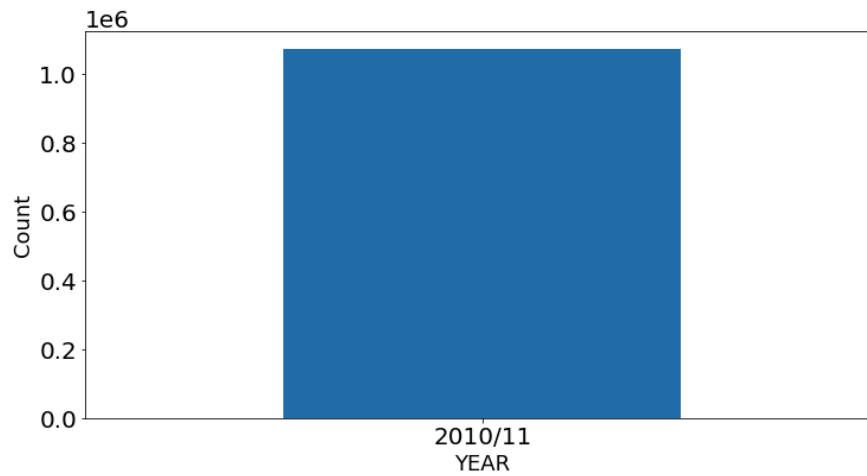
**dd. PERIOD**

- i. Description: There is only one period (FINAL). PERIOD refers to the assessment period which pertains to the period when the data was created.
- ii. Picture



ee. YEAR

- i. Description: YEAR refers to the assessment year.
- ii. Picture

**ff. VALTYPE**

- i. Description: Valuation type and has one value (AC-TR)
- ii. Picture

