Exercise: Cleaning NYC Property Sales

This lesson will test the user on data cleaning.

WE'LL COVER THE FOLLOWING ^

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NYC Property Sales

In this lesson, you are going to clean the NYC Property Sales Dataset. This dataset is a record of every building or building unit (apartment, etc.) sold in the New York City property market over a 12-month period.

In the below exercises, you will be writing functions for every task. The

functions will receive a dataframe df as an input argument. Your task will be to perform the required operations and return the dataframe.

1. Change values

In the BOROUGH column, the values range from 1 to 5. Change these according to the following

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

Input

A dataframe

Output

Dataframe with **BOROUGH** values changed.

Exercise



2. Missing values

Remove rows that have missing values in SALE PRICE column.

Input

A dataframe

Output

Dataframe with rows that have missing values in SALE DRICE column

removed.

Exercise



3. Duplicate values

Remove rows that have duplicates in each column.

Input

A dataframe

Output

Dataframe with duplicated rows removed.

Exercise



4. Outliers

Remove outliers from the dataframe by checking outliers using inter-quartile ranges in the following columns:

- RESIDENTIAL UNITS
- COMMERCIAL UNITS
- TOTAL UNITS
- LAND COLLABE EFFT

- LAND SQUARE FEET
- GROSS SQUARE FEET
- YEAR BUILT

However, the quartile range should be between 0.10 and 0.90.

Input

A dataframe

Output

Dataframe with Outliers removed.

Exercise



In the next lesson, we will review the solutions to these exercises.