



## PROJECT

## Wrangle OpenStreetMap Data

A part of the Data Analyst Nanodegree Program

## PROJECT REVIEW

## CODE REVIEW

## NOTES

SHARE YOUR ACCOMPLISHMENT!  

## Meets Specifications

You put in a lot of effort and it clearly shows in the project report. Congratulations on a very good project report. Feel free to share it with your friends or post it as a blog. I hope you work on more exciting and challenging Data Wrangling projects in future. All the best with your future submissions. Good Luck!!

## Code Functionality

Final project code functionality reflects the description in the project document.

## Code Readability

Final project code follows an intuitive, easy-to-follow logical structure.

Very well written code. Neat, modular and easy to follow. Well Done!!

Final project code that is not intuitively readable is well-documented with comments.

Good job in commenting the code wherever necessary. Also it is a good coding practice to use docstrings along with your functions. Below is a sample docstring:

```
def add_numbers(num1, num2):  
    """  
        Adds the given numbers  
        Args:  
            num1 (float): one of the two numbers  
            num2 (float): one of the two numbers  
        Returns:  
            float: sum of the two numbers  
    """
```

More details here <https://www.python.org/dev/peps/pep-0257/> and here <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>

## Problems encountered in your map

Student response shows understanding of the process of auditing, and ways to correct or standardize the data, including dealing with problems specific to the location, e.g. related to language or traditional ways of formatting.

Some of the problems encountered during data audit are cleaned programmatically.

## Overview of the data

The OSM XML file is at least 50 MB uncompressed.

Database queries are used to provide a statistical overview of the dataset, like:

- size of the file
- number of unique users
- number of nodes and ways
- number of chosen type of nodes, like cafes, shops etc.

Additional statistics not in the list above are computed. For SQL submissions some queries make use of more than one table.

The submission document includes the database queries and statistics from above.

## Other ideas about the dataset

Submission document includes one or more additional suggestions for improving and analyzing the data. The suggestions are backed up by at least one investigative query.

Very interesting ideas.

Submission document includes thoughtful discussion about the benefits as well as some anticipated problems in implementing the improvement.

## Thoroughness and Succinctness of Submission

Submission document is long enough to thoroughly answer the questions asked without giving unnecessary detail. A good general guideline is that the question responses should take about 3-6 pages.

You have very thorough report, yet very concise. It is to the point and written in a very straight forward language.

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