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Wrangle OpenStreetMap Data

Student Notes   Code Review ³   Project Review

Meets Specifications

Code Functionality ⌄

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

MEETS SPECIFICATION

Reviewer Comments
Code submitted reflects work done in the submitted document PDF.

Code Readability ⌄

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

MEETS SPECIFICATION

Reviewer Comments
Distinct blocks separate distinct functions. There is no overlapping in function procedures. This makes the code extremely logical and easy to follow.

How satisfied are you with this feedback?

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

MEETS SPECIFICATION

Reviewer Comments
All critical areas are well commented.

Problems encountered in your map ⌄

SPECIFICATION
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.

MEETS SPECIFICATION

Reviewer Comments
An outstanding work demonstrating a variety of auditing and cleaning procedures. I'm glad you went beyond the demonstrations of Lesson 6 and found additional cleaning issues other than street related issues. I especially appreciate the level of thoroughness in documenting the methods.

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

MEETS SPECIFICATION

Reviewer Comments
You have done a great job of demonstrating programmatic cleaning procedures. This is one of the most important advantages computers can give us.

Overview of the data ⌄

How satisfied are you with this feedback?

SPECIFICATION
The dataset is at least 50 MB.

MEETS SPECIFICATION

Reviewer Comments

~60mb

SPECIFICATION
Student response provides a statistical overview of a 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

MEETS SPECIFICATION

Reviewer Comments

```
Count the nodes and ways:
Count of node: 267019
Count of way: 15420
Count of all records: 282439
```

SPECIFICATION
Student response also includes the MongoDB queries used to obtain the statistics.

MEETS SPECIFICATION

Reviewer Comments

ADDITIONALLY (OPTIONAL)

Pipelines
It is recommended that coders create pipelines prior to database submission/query. This added
step allows coders to review pipelines for errors that could potentially harm the database. Here is
an example.
Single Command Method

How satisfied are you with this feedback?

Safer Method

```
pipeline = ([{"$group": {"_id": "$created.user", "count":
{"$sum":1}}},
{"$sort": {"count": -1}},
{"$limit": 5}]
db.locations.aggregate(pipeline)
```

This is just an example. This is particularly important when one is using `db.update()` or `db.insert()` to make database changes. Just something to think about and is optional.

Other ideas about the datasets   ⌄

SPECIFICATION
Student proposes one or more additional ways of improving and analyzing the data.

MEETS SPECIFICATION

Reviewer Comments
Amazing amounts of suggestions you have made. I really like the idea to use the data for business research. This could fund OSM to further its data quality. We could entice city planning or real estate firms into a trade of information for money.

SPECIFICATION
Student gives thoughtful discussion about the benefits as well as some anticipated problems in implementing the improvement.

MEETS SPECIFICATION

Reviewer Comments
Great work in digging deep and finding the hurdles we must overcome to implement these solutions responsibly.

How satisfied are you with this feedback?

Thoroughness and Succinctness of Submission ⌄

SPECIFICATION

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

MEETS SPECIFICATION

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