



- From the **Edit Data** interface, filter the table using the values specified in the table below. How many rows are visible?
- Select a single row and enter edit mode
- Change the casing of the attribute value from the column FEAT\_TYPE to uppercase eg slow >> SLOW.

### Exercise 02 - Perform an update using the layer data replacement feature

- Select the road layer uploaded in the previous exercise
- Choose **Editing Tools** and then select the **Replace** option
- Select the osm\_railways layer from the exercise materials and replace the roads layer with the osm\_railways layer.

**For layers to be replaced on GeoNode the files must be named the same. Be sure to rename the osm\_railways layer to "roads" before replacing it. Move the layer and auxiliary files to a separate folder as to not confuse them with the actual roads layer before renaming the files.**

- Update the metadata to suit the osm\_railways layer

### Check your results

Were you able to update the attributes of existing features?

Did you manage to update multiple features simultaneously?


Did you manage to replace the roads layer with osm\_railways layer? Did you try to change the default style to be more appropriate?

Did you manage to update the metadata? Will other users be able to identify the change?

Name	Expectation
Feat Type	Main Road
Entity_Nam	501
SAGD_S_TYP	4
JOB_NR	498_591

## Replace Layer roads

Return to Layer Explore Layers



Drop files here

or select them one by one:

Choose Files

**Files to be uploaded**

Select the charset or leave default

UTF-8/Unicode

Clear **Replace Layer**

**Permissions**

Who can view it? ▾

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

Who can download it? ▾

Who can change metadata for it? ▾

Who can edit data for this layer? ▾

Who can edit styles for this layer? ▾

Who can manage it? (update, delete, change permissions, publish/unpublish it) ▾

### More about updating layers

There are some additional considerations when utilising the layer update functionality.

#### Layer data replacements

Replacing of complete layers should use the geometry type of existing layers. For example, in the exercise above, the roads layer can be replaced with the contents of the railway data as both feature sets are of the line geometry type. If, for example, the intention was to update the data with a street sign point dataset, this would not be feasible and a new layer would need to be created instead.

#### Layer data editing

When in edit mode, the following interface features can be leverage to enhance the editing capabilities for attribute data

- Bulk editing of attributes
- Zoom to the features for a selected row
- Advanced search for a feature in the attribute table
- Column level filter using expressions or numbers
- Hiding columns to only show important columns
- Ability to sync selected row with map, limiting the records in the attribute table to those that match features present in the map frame
- Ability to add a new feature by adding a shape corresponding to the layer geometry type

#### About refreshing attributes and statistics

GeoNode provides a layer function for attribute and statistic refreshing. This function ensures that the GeoNode system has the most up to date information, including when the latest edits were made or what attribute values are available, and is useful in many contexts, including:

- Where the data is edited from a remote datasource such as a database
- Other users have made changes whilst the layer is being reviewed

This process is distinct from layer updates as it does not make changes to the underlying data itself, but rather updates the available metadata for a layer within the GeoNode platform.

### **Check your knowledge:**

1. Is it possible to edit the attributes of raster data:
  - a. Yes
  - b. Raster data does not have attributes
  - c. No, GeoNode does not expose the attributes of raster layers
2. Is it possible to replace a vector layer with a raster layer:
  - a. No, their data models are completely different
  - b. Yes, they are all stored in the same GeoNode instance
  - c. Yes, as long as they have matching geometry types
3. Is it possible to also edit the geometry of an existing feature whilst in edit mode for attributes:
  - a. No, edit mode is restricted to attributes only
  - b. You are only allowed to create new shapes
  - c. You can edit an existing geometry to some extent

### **Module video tutorial:**

- [https://www.youtube.com/watch?v=RAWA8m9LoSo&list=PLrZxneE\\_xfYtdMxOPXzeCmFft9ld0gywM&index=8](https://www.youtube.com/watch?v=RAWA8m9LoSo&list=PLrZxneE_xfYtdMxOPXzeCmFft9ld0gywM&index=8)

### **Further reading:**

- Editing layers [https://docs.geonode.org/en/master/usage/managing\\_layers/layer\\_editing.html](https://docs.geonode.org/en/master/usage/managing_layers/layer_editing.html)

Download the sample data for the lesson from [http://changelog.inasafe.org/media/images/lesson/worksheet/external\\_data/a3f7ed623d6570fed9354aa4902ff2021d8d40a.zip](http://changelog.inasafe.org/media/images/lesson/worksheet/external_data/a3f7ed623d6570fed9354aa4902ff2021d8d40a.zip).