

3.8 Adding Information with SPARQL Update

As mentioned in section 3.1, SPARQL also defines a protocol to update the contents of a triple store. This is the SPARQL Update protocol. Essentially, it adds a series of new keywords to SPARQL that allow for the insertion, loading, and deleting of triples. Below we show examples of each type of request.

Inserting and Loading Triples The following inserts a statement that says Luxury Apartment is a subclass of Apartment. It appends the triple to whatever content was already in the triple store.

```
PREFIX swp: <http://www.semanticwebprimer.org/ontology/apartments.ttl#>.
```

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
INSERT DATA
```

```
{  
    swp:LuxuryApartment rdfs:subClassOf swp:Apartment.  
}
```

Note that the data itself is just the Turtle syntax that we are familiar with from chapter 2.

If you have a large file containing RDF available on the web, you can load it into a triple store using the following command:

```
LOAD <http://example.com/apartment.rdf>
```

Deleting Triples There are a couple of ways to delete triples from a triple store. One is to specify exactly what triples you want to delete using the DELETE DATA keywords. Deleting the triples inserted above would look like this: