| Type of restriction | Qualified | Not qualified |
|---|---|---|
| Exact cardinality | owl:qualifiedCardinality | owl:cardinality |
| Minimum cardinality | owl:qualifiedMinCardinality | owl:minCardinality |
| Maximum cardinality | owl:qualifiedMaxCardinality | owl:maxCardinality |

Table 4.2: Cardinality restrictions in OWL2

datatype as value for the property. Sometimes we need more precise definitions to define, for instance, the class of adults who can rent apartments, or the minimum size of apartments. In OWL2, we can specify restrictions on the range of values allowed for a property:

```
:Adult    rdfs:subClassOf   dbpedia:Person ;
        rdfs:subClassOf [ rdf:type        owl:Restriction ;
                    owl:onProperty :hasAge ;
                    owl:someValuesFrom
                     [ rdf:type        rdfs:Datatype ;
                       owl:onDatatype xsd:integer ;
                       owl:withRestrictions (
                         [ xsd:minInclusive "18"^^xsd:integer ]
                       )
                     ]
                ] .
```

This defines :Adult as the subclass of persons that have a value for the :hasAge that falls within the range of integers equal to or larger than 18. You can see that the data range is defined as an anonymous class of type rdfs:Datatype. We could also have introduced a new *named* datatype that we could reuse throughout the ontology:

```
:AdultAge rdf:type              rdfs:Datatype ;
        owl:onDatatype        xsd:integer ;
        owl:withRestrictions (
            [ xsd:minInclusive "18"^^xsd:integer ]
                 ) .
```