```
1   [% for(db in graph!Database) %]
2    [% for(sr in db.rules) %]
3
4   // extract information of the security rule
5   [% var sign:String; var nodeList:String; var relationshipList:String;
6      var fieldList:String; var roleList:String; var action:String; %]
7   // sign
8   [% if(sr.sign.equals('+')) sign="GRANT" %]
9   [% if(sr.sign.equals('-')) sign="DENY" %]
10  // elements
11  [% for(e in sr.elements) %]
12   [% if(e.isKindOf(Node)) nodeList = nodeList + e.name + ','  %]
13   [% if(e.isKindOf(Relationship)) relationshipList = relationshipList +
14      e.name + ',' %]
15   // roles
16   [% for(r in sr.roles) roleList = roleList + r.name + ',' %]
17   // for each privilege
18   [% for(p in sr.privileges) %]
19    [% if(p.equals('Read')) action="MATCH" %]
20    [% if(p.equals('Create')) action="CREATE" %]
21    [% if(p.equals('Delete')) action="DELETE" %]
22    [% if(p.equals('Update')) action="SET PROPERTY {*}" %]
23
24    // security privilege
25    [% if(sr.isKindOf(SecurityRuleElement)) %]
26     [%= sign %] [%= action %] ON GRAPHS [%= db.name %]
27        NODES [%= nodeList %] TO [%= roleList %]
28     [%= sign %] [%= action %] ON GRAPHS [%= db.name %]
29        RELATIONSHIPS [%= relationshipList %] TO [%= roleList %]
30
31    // fine grain security privilege
32    [% if(sr.isKindOf(SecurityRuleField)) %]
33     [% for(f in sr.fields) %]
34      [% if(f.element.isKindOf(Node)) %]
35       [%= sign %] [%= action %] { [%= f.name %] } ON GRAPHS [%= db.name %]
36          NODES [%= f.element %] TO [%= roleList %]
37      [% if(f.element.isKindOf(Relationship)) %]
38       [%= sign %] [%= action %] { [%= f.name %] } ON GRAPHS [%= db.name %]
39          RELATIONSHIPS [%= f.element %] TO [%= roleList %]
```