```
<?xml version="1.0"?>


<!DOCTYPE rdf:RDF [
    <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
    <!ENTITY swrl "http://www.w3.org/2003/11/swrl#" >
    <!ENTITY swrlb "http://www.w3.org/2003/11/swrlb#" >
    <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
    <!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#" >
    <!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#" >
]>


<rdf:RDF xmlns="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#"
     xml:base="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto"
     xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
     xmlns:swrl="http://www.w3.org/2003/11/swrl#"
     xmlns:owl="http://www.w3.org/2002/07/owl#"
     xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
     xmlns:swrlb="http://www.w3.org/2003/11/swrlb#"
     xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
    <owl:Ontology rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto"/>




    <!--
    ///////////////////////////////////////////////////////////////////////////////////////
    //
    // Object Properties
    //
    ///////////////////////////////////////////////////////////////////////////////////////
     -->




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#isAncestor -->

    <owl:ObjectProperty
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#isAncestor"/>




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#isParent -->

    <owl:ObjectProperty
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#isParent">
        <rdfs:domain
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Parent"/>
    </owl:ObjectProperty>




    <!--
    ///////////////////////////////////////////////////////////////////////////////////////
    //
    // Data properties
```

```xml
    //
    ////////////////////////////////////////////////////////////////////////////////////
    -->




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#gender -->

    <owl:DatatypeProperty
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#gender">
        <rdfs:range>
            <rdfs:Datatype>
                <owl:oneOf>
                    <rdf:Description>
                        <rdf:type rdf:resource="&rdf;List"/>
                        <rdf:first>female</rdf:first>
                        <rdf:rest>
                            <rdf:Description>
                                <rdf:type rdf:resource="&rdf;List"/>
                                <rdf:first>male</rdf:first>
                                <rdf:rest rdf:resource="&rdf;nil"/>
                            </rdf:Description>
                        </rdf:rest>
                    </rdf:Description>
                </owl:oneOf>
            </rdfs:Datatype>
        </rdfs:range>
    </owl:DatatypeProperty>




    <!--
    ////////////////////////////////////////////////////////////////////////////////////
    //
    // Classes
    //
    ////////////////////////////////////////////////////////////////////////////////////
    -->




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Ancestor -->

    <owl:Class
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Ancestor">
        <rdfs:subClassOf
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    </owl:Class>




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Father -->

    <owl:Class
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Father">
```

```xml
        <rdfs:subClassOf
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Parent"/>
    </owl:Class>




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Mother -->

    <owl:Class
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Mother">
        <rdfs:subClassOf
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Parent"/>
    </owl:Class>




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Parent -->

    <owl:Class
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Parent">
        <rdfs:subClassOf
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    </owl:Class>




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person -->

    <owl:Class
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>




    <!--
    ///////////////////////////////////////////////////////////////////////////////////////
    //
    // Individuals
    //
    ///////////////////////////////////////////////////////////////////////////////////////
     -->




    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#doris -->

    <owl:NamedIndividual
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#doris">
        <rdf:type
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
        <gender rdf:datatype="&xsd;string">female</gender>
        <isParent
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#hans"/>
    </owl:NamedIndividual>
```

```xml
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#hans -->


<owl:NamedIndividual
rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#hans">
    <rdf:type
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    <gender rdf:datatype="&xsd;string">male</gender>
    <isParent
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#lisa"/>
</owl:NamedIndividual>




<!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#lisa -->


<owl:NamedIndividual
rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#lisa">
    <rdf:type
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    <gender>female</gender>
    <isParent
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#luca"/>
    <isParent
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#tea"/>
</owl:NamedIndividual>




<!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#luca -->


<owl:NamedIndividual
rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#luca">
    <rdf:type
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    <gender>male</gender>
</owl:NamedIndividual>




<!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#madita -->


<owl:NamedIndividual
rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#madita">
    <rdf:type
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
    <gender>female</gender>
    <isParent
    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#lisa"/>
</owl:NamedIndividual>




<!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#max -->


<owl:NamedIndividual
rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#max">
    <rdf:type
```

```
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
        <gender>male</gender>
        <isParent
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#luca"/>
        <isParent
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#tea"/>
    </owl:NamedIndividual>



    <!-- http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#tea -->

    <owl:NamedIndividual
    rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#tea">
        <rdf:type
        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/FamilyOnto#Person"/>
        <gender>female</gender>
    </owl:NamedIndividual>



    <!--
    ///////////////////////////////////////////////////////////////////////////////////////
    //
    // Rules
    //
    ///////////////////////////////////////////////////////////////////////////////////////
     -->

    <rdf:Description rdf:about="urn:swrl#f">
        <rdf:type rdf:resource="&swrl;Variable"/>
    </rdf:Description>
    <rdf:Description rdf:about="urn:swrl#x">
        <rdf:type rdf:resource="&swrl;Variable"/>
    </rdf:Description>
    <rdf:Description rdf:about="urn:swrl#a">
        <rdf:type rdf:resource="&swrl;Variable"/>
    </rdf:Description>
    <rdf:Description rdf:about="urn:swrl#c">
        <rdf:type rdf:resource="&swrl;Variable"/>
    </rdf:Description>
    <rdf:Description rdf:about="urn:swrl#m">
        <rdf:type rdf:resource="&swrl;Variable"/>
    </rdf:Description>
    <rdf:Description>
        <rdf:type rdf:resource="&swrl;Imp"/>
        <swrl:body>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;AtomList"/>
                <rdf:rest>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;AtomList"/>
                        <rdf:rest rdf:resource="&rdf;nil"/>
                        <rdf:first>
                            <rdf:Description>
                                <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                                <swrl:propertyPredicate
```

```xml
                        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/
                        9/FamilyOnto#isParent"/>
                        <swrl:argument1 rdf:resource="urn:swrl#a"/>
                        <swrl:argument2 rdf:resource="urn:swrl#x"/>
                    </rdf:Description>
                </rdf:first>
            </rdf:Description>
        </rdf:rest>
        <rdf:first>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;ClassAtom"/>
                <swrl:classPredicate
                rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                Onto#Person"/>
                <swrl:argument1 rdf:resource="urn:swrl#a"/>
            </rdf:Description>
        </rdf:first>
    </rdf:Description>
</swrl:body>
<swrl:head>
    <rdf:Description>
        <rdf:type rdf:resource="&swrl;AtomList"/>
        <rdf:rest rdf:resource="&rdf;nil"/>
        <rdf:first>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                <swrl:propertyPredicate
                rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                Onto#isAncestor"/>
                <swrl:argument1 rdf:resource="urn:swrl#a"/>
                <swrl:argument2 rdf:resource="urn:swrl#x"/>
            </rdf:Description>
        </rdf:first>
    </rdf:Description>
</swrl:head>
</rdf:Description>
<rdf:Description>
    <rdf:type rdf:resource="&swrl;Imp"/>
    <swrl:body>
        <rdf:Description>
            <rdf:type rdf:resource="&swrl;AtomList"/>
            <rdf:rest>
                <rdf:Description>
                    <rdf:type rdf:resource="&swrl;AtomList"/>
                    <rdf:rest rdf:resource="&rdf;nil"/>
                    <rdf:first>
                        <rdf:Description>
                            <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                            <swrl:propertyPredicate
                            rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/
                            9/FamilyOnto#isAncestor"/>
                            <swrl:argument2 rdf:resource="urn:swrl#c"/>
                            <swrl:argument1 rdf:resource="urn:swrl#x"/>
                        </rdf:Description>
                    </rdf:first>
                </rdf:Description>
            </rdf:rest>
```

```
            <rdf:first>
                <rdf:Description>
                    <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                    <swrl:propertyPredicate
                    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                    Onto#isParent"/>
                    <swrl:argument1 rdf:resource="urn:swrl#a"/>
                    <swrl:argument2 rdf:resource="urn:swrl#x"/>
                </rdf:Description>
            </rdf:first>
        </rdf:Description>
    </swrl:body>
    <swrl:head>
        <rdf:Description>
            <rdf:type rdf:resource="&swrl;AtomList"/>
            <rdf:rest rdf:resource="&rdf;nil"/>
            <rdf:first>
                <rdf:Description>
                    <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                    <swrl:propertyPredicate
                    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                    Onto#isAncestor"/>
                    <swrl:argument1 rdf:resource="urn:swrl#a"/>
                    <swrl:argument2 rdf:resource="urn:swrl#c"/>
                </rdf:Description>
            </rdf:first>
        </rdf:Description>
    </swrl:head>
</rdf:Description>
<rdf:Description>
    <rdf:type rdf:resource="&swrl;Imp"/>
    <swrl:head>
        <rdf:Description>
            <rdf:type rdf:resource="&swrl;AtomList"/>
            <rdf:rest rdf:resource="&rdf;nil"/>
            <rdf:first>
                <rdf:Description>
                    <rdf:type rdf:resource="&swrl;ClassAtom"/>
                    <swrl:classPredicate
                    rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                    Onto#Ancestor"/>
                    <swrl:argument1 rdf:resource="urn:swrl#a"/>
                </rdf:Description>
            </rdf:first>
        </rdf:Description>
    </swrl:head>
    <swrl:body>
        <rdf:Description>
            <rdf:type rdf:resource="&swrl;AtomList"/>
            <rdf:rest>
                <rdf:Description>
                    <rdf:type rdf:resource="&swrl;AtomList"/>
                    <rdf:rest rdf:resource="&rdf;nil"/>
                    <rdf:first>
                        <rdf:Description>
                            <rdf:type rdf:resource="&swrl;ClassAtom"/>
                            <swrl:classPredicate
```

```xml
                                rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/
                                9/FamilyOnto#Person"/>
                                <swrl:argument1 rdf:resource="urn:swrl#a"/>
                            </rdf:Description>
                        </rdf:first>
                    </rdf:Description>
                </rdf:rest>
                <rdf:first>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                        <swrl:propertyPredicate
                        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                        Onto#isAncestor"/>
                        <swrl:argument1 rdf:resource="urn:swrl#a"/>
                        <swrl:argument2 rdf:resource="urn:swrl#x"/>
                    </rdf:Description>
                </rdf:first>
            </rdf:Description>
        </swrl:body>
    </rdf:Description>
    <rdf:Description>
        <rdf:type rdf:resource="&swrl;Imp"/>
        <swrl:head>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;AtomList"/>
                <rdf:rest rdf:resource="&rdf;nil"/>
                <rdf:first>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;ClassAtom"/>
                        <swrl:classPredicate
                        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                        Onto#Mother"/>
                        <swrl:argument1 rdf:resource="urn:swrl#m"/>
                    </rdf:Description>
                </rdf:first>
            </rdf:Description>
        </swrl:head>
        <swrl:body>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;AtomList"/>
                <rdf:first>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;ClassAtom"/>
                        <swrl:classPredicate
                        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                        Onto#Person"/>
                        <swrl:argument1 rdf:resource="urn:swrl#m"/>
                    </rdf:Description>
                </rdf:first>
                <rdf:rest>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;AtomList"/>
                        <rdf:rest>
                            <rdf:Description>
                                <rdf:type rdf:resource="&swrl;AtomList"/>
                                <rdf:rest rdf:resource="&rdf;nil"/>
                                <rdf:first>
```

```xml
                                    <rdf:Description>
                                        <rdf:type
                                        rdf:resource="&swrl;DatavaluedPropertyAtom"/>
                                        <swrl:argument2>female</swrl:argument2>
                                        <swrl:propertyPredicate
                                        rdf:resource="http://www.semanticweb.org/mira/ontologi
                                        es/2014/9/FamilyOnto#gender"/>
                                        <swrl:argument1 rdf:resource="urn:swrl#m"/>
                                    </rdf:Description>
                                </rdf:first>
                            </rdf:Description>
                        </rdf:rest>
                        <rdf:first>
                            <rdf:Description>
                                <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                                <swrl:propertyPredicate
                                rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/
                                9/FamilyOnto#isParent"/>
                                <swrl:argument1 rdf:resource="urn:swrl#m"/>
                                <swrl:argument2 rdf:resource="urn:swrl#x"/>
                            </rdf:Description>
                        </rdf:first>
                    </rdf:Description>
                </rdf:rest>
            </rdf:Description>
        </swrl:body>
    </rdf:Description>
    <rdf:Description>
        <rdf:type rdf:resource="&swrl;Imp"/>
        <swrl:head>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;AtomList"/>
                <rdf:rest rdf:resource="&rdf;nil"/>
                <rdf:first>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;ClassAtom"/>
                        <swrl:classPredicate
                        rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                        Onto#Father"/>
                        <swrl:argument1 rdf:resource="urn:swrl#f"/>
                    </rdf:Description>
                </rdf:first>
            </rdf:Description>
        </swrl:head>
        <swrl:body>
            <rdf:Description>
                <rdf:type rdf:resource="&swrl;AtomList"/>
                <rdf:rest>
                    <rdf:Description>
                        <rdf:type rdf:resource="&swrl;AtomList"/>
                        <rdf:first>
                            <rdf:Description>
                                <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
                                <swrl:propertyPredicate
                                rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/
                                9/FamilyOnto#isParent"/>
                                <swrl:argument1 rdf:resource="urn:swrl#f"/>
```

```xml
                                    <swrl:argument2 rdf:resource="urn:swrl#x"/>
                                </rdf:Description>
                            </rdf:first>
                            <rdf:rest>
                                <rdf:Description>
                                    <rdf:type rdf:resource="&swrl;AtomList"/>
                                    <rdf:rest rdf:resource="&rdf;nil"/>
                                    <rdf:first>
                                        <rdf:Description>
                                            <rdf:type
                                            rdf:resource="&swrl;DatavaluedPropertyAtom"/>
                                            <swrl:argument2>male</swrl:argument2>
                                            <swrl:propertyPredicate
                                            rdf:resource="http://www.semanticweb.org/mira/ontologi
                                            es/2014/9/FamilyOnto#gender"/>
                                            <swrl:argument1 rdf:resource="urn:swrl#f"/>
                                        </rdf:Description>
                                    </rdf:first>
                                </rdf:Description>
                            </rdf:rest>
                        </rdf:Description>
                    </rdf:rest>
                    <rdf:first>
                        <rdf:Description>
                            <rdf:type rdf:resource="&swrl;ClassAtom"/>
                            <swrl:classPredicate
                            rdf:resource="http://www.semanticweb.org/mira/ontologies/2014/9/Family
                            Onto#Person"/>
                            <swrl:argument1 rdf:resource="urn:swrl#f"/>
                        </rdf:Description>
                    </rdf:first>
                </rdf:Description>
            </swrl:body>
        </rdf:Description>
</rdf:RDF>


<!-- Generated by the OWL API (version 3.5.1) http://owlapi.sourceforge.net -->
```