1 Entailment

- 1.1 sim:Marge rdf:type foaf:Person
- 1. fam:hasSpouse rdfs:domain foaf:Person P
- 2. sim:Marge fam:hasSpouse sim:Homer P
- 3. sim:Marge rdf:type foaf:Person rdfs2, 1, 2

1.2 fam:hasSister rdfs:subPropertyOf fam:isRelativeOf

- 1. fam:hasSister rdfs:subPropertyOf fam:hasSibling P
- 2. fam:hasSibling rdfs:subPropertyOf fam:isRelativeOf P
- 3. fam:hasSister rdfs:subPropertyOf fam:isRelativeOf rdfs5, 1, 2

1.3 sim:Marge rdf:type fam:Woman

Marge is only referred to as being a spouse and having a spouse. Like we saw in 1.1 this makes her a Person but we can not know if this person is a Woman.

1.4 sim:Herb rdf:type fam:Man

- 1. [] fam:hasBrother sim:Herb P
- 2. fam:hasBrother rdfs:range fam:Man P
- 3. sim:Herb rdf:type fam:Man rdfs3, 1, 2

1.5 sim:Lisa fam:isRelativeOf sim:Homer

- 1. sim:Lisa fam:hasFather sim:Homer P
- 2. fam:hasFather rdfs:subPropertyOf fam:hasParent P
- 3. fam:hasParent rdfs:subPropertyOf fam:isRelativeOf P
- 4. fam:hasFather rfds:subPropertyOf fam:isRelativeOf rdfs5, 2, 3
- 5. sim:Lisa fam:isRelativeOf sim:Homer rdfs7, 1, 4

1.6 sim:Lisa fam:hasMother sim:Marge

There does not seem to be a way to connect Lisa to Marge. Lisa has a blanknode parent but there is no way to verify that this is Marge

1.7 sim:Patty rdf:type foaf:Person

- 1. [] fam:hasSister sim:Patty P
- 2. fam:hasSister rdfs:subPropertyOf fam:hasSibling P
- 3. fam:hasSibling rdfs:subPropertyOf fam:isRelativeOf P
- 4. fam:hasSister rdfs:subPropertyOf fam:isRelativeOf rdfs5, 2, 3
- 5. [] fam:isRelativeOf sim:Patty rdfs7, 1, 4
- 6. fam:isRelativeOf rdfs:range foaf:Person P
- 7. sim:Patty rdf:type foaf:Person rdfs3, 5, 6