2. Entailment

2.1.1

Yes, and this is the derivation:

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

2.1.2

Yes, and this is the derivation:

- 1. fam:hasSister rdfs:subPropertyOf fam:hasSibling P
- 2. fam:hasSibling rdfs:subPropertyOf fam:isRelativeOf P
- 3. fam:hasSister rdfs:subPropertyOf fam:isRelativeOf rdfsX, 1, 2
- 2.1.3
- No.
- 2.1.4
- No.
- 2.1.6
- No.
- 2.1.7

Yes, and this is the derivation:

- 1. sim:Lisa fam:hasParent [] .
- 2. [] a foaf:Person.
- 3. [] fam:hasSister sim:Patty.
- 4. sim:Patty rdf:type foaf:Person . rdfsX, 1, 2, 3