1. Translate the following natural language sentences into SPARQL.

1) What are all the countries and their capitals in Africa?

(given

http://dbpedia.org/property/continent,

http://dbpedia.org/resource/Africa,

http://dbpedia.org/ontology/Country,

http://dbpedia.org/ontology/capital)

2) What are the devices whose manufacturers are in Korea or Japan?

(given

http://dbpedia.org/property/locationCountry,

http://dbpedia.org/resource/Korea,

http://dbpedia.org/resource/Japan,

http://dbpedia.org/ontology/manufacturer,

http://dbpedia.org/ontology/Device)

2. From the following RDF triples and the result of query, construct a SPARQL query.

@prefix foaf: <http://xmlns.com/foaf/0.1/> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

\_:a rdf:type foaf:Person .

\_:a foaf:name "Alice" .

\_:a foaf:mbox <mailto:alice@example.com> .

\_:a foaf:mbox <mailto:alice@work.example> .

\_:b rdf:type foaf:Person .

\_:b foaf:name "Bob" .

Query result:

