Bài 1:

+Lược đồ RDF:

<?xml version="1.0" encoding="UTF-8"?>

<rdf:RDF

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"

    xml:base="http://www.ptit.edu.vn/profile">

    <rdfs:Class rdf:ID="#Person" />

    <rdfs:Class rdf:ID="#Student">

        <rdfs:subClassOf rdfs:Resource="#Person"/>

    </rdfs:Class>

    <rdfs:Class rdf:ID="#Teacher">

        <rdfs:subClassOf rdfs:Resource="#Person"/>

    </rdfs:Class>

    <rdfs:Class rdf:ID="#Course"/>

    <rdf:Property rdf:ID="has\_name">

        <rdfs:domain rdfs:Resource="#Person" />

        <rdfs:domain rdfs:Resource="#Course" />

        <rdfs:range rdfs:Resource="#Literal" />

    </rdf:Property>

    <rdf:Property rdf:ID="has\_students">

        <rdfs:domain rdfs:Resource="#Course" />

        <rdfs:range rdfs:Resource="#Student" />

    </rdf:Property>

    <rdf:Property rdf:ID="has\_teacher">

        <rdfs:domain rdfs:Resource="#Course" />

        <rdfs:range rdfs:Resource="#Teacher" />

    </rdf:Property>

</rdf:RDF>

+Ví dụ:

<?xml version="1.0" encoding="UTF-8"?>

<Person rdf:ID="Ashe"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/person#">

    <has\_name>Ashe Laver</has\_name>

</Person>

<Student rdf:ID="Loud"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/student#">

    <has\_name>Loud Freeley</has\_name>

</Student>

<Teacher rdf:ID="Mariah"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/teacher#">

    <has\_name>Mariah Anna</has\_name>

</Teacher>

<Course rdf:ID="Lee"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/course#">

    <has\_name>Lee</has\_name>

    <has\_students rdf:resource="http://www.ptit.edu.vn/student#Loud"/>

    <has\_teacher rdf:resource="http://www.ptit.edu.vn/teacher#Mariah"/>

</Course>

Bài 2:

<?xml version="1.0" encoding="UTF-8"?>

<rdf:RDF

    xmlns:owl ="http://www.w3.org/2002/07/owl#"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"

    xml:base="http://www.ptit.edu.vn/profile"

    xmlns:xsd ="http://www.w3.org/2001/XMLSchema#">

    <owl:Class rdf:ID="Sinhvien">

        <rdfs:label>Sinhvien</rdfs:label>

    </owl:Class>

    <owl:Class rdf:ID="Giaovien">

        <rdfs:label>Giaovien</rdfs:label>

    </owl:Class>

    <owl:DatatypeProperty rdf:ID="ten">

        <rdfs:domain rdfs:Resource="#Sinhvien" />

        <rdfs:domain rdfs:Resource="#Giaovien" />

        <rdfs:range rdfs:Resource="&xsd;string" />

    </owl:DatatypeProperty>

    <owl:ObjectProperty rdf:ID="day">

        <rdfs:domain rdfs:Resource="#Giaovien" />

        <rdfs:range rdfs:Resource="#Sinhvien" />

    </owl:ObjectProperty>

    <owl:ObjectProperty rdf:ID="duoc\_day\_boi">

        <rdfs:domain rdfs:Resource="#Sinhvien" />

        <rdfs:domain rdfs:Resource="#Giaovien" />

    </owl:ObjectProperty>

</rdf:RDF>

<?xml version="1.0" encoding="UTF-8"?>

<Sinhvien rdf:ID="A"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/sinhVien#">

    <ten>Nguyen Van A</ten>

    <duoc-day-boi rdf:resource="http://www.ptit.edu.vn/giaoVien#B"/>

</Sinhvien>

<Giaovien rdf:ID="B"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns="http://www.ptit.edu.vn/profile#"

    xml:base="http://www.ptit.edu.vn/giaoVien#">

    <ten>Nguyen Van B</ten>

    <day rdf:resource="http://www.ptit.edu.vn/sinhVien#A"/>

</Giaovien>

Bài 3:

<?xml version="1.0" encoding="UTF-8"?>

<rdf:RDF

    xmlns:owl="http://www.w3.org/2002/07/owl#"

    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"

    xml:base="http://www.ptit.edu.vn/profile"

    xmlns:xsd="http://www.w3.org/2001/XMLSchema#">

    <owl:Class rdf:ID="Customer">

        <rdfs:label>Customer</rdfs:label>

    </owl:Class>

    <owl:Class rdf:ID="Shop">

        <rdfs:label>Shop</rdfs:label>

    </owl:Class>

    <owl:Class rdf:ID="BigShop">

        <rdfs:label>BigShop</rdfs:label>

        <owl:equivalentClass rdf:resource="#Shop"/>

        <rdfs:subClassOf>

            <owl:Restriction>

                <owl:onProperty rdf:resource="#sells" />

                <owl:minCardinality rdf:datatype="xsd;nonNegativeInteger">100</owl:minCardinality>

            </owl:Restriction>

        </rdfs:subClassOf>

    </owl:Class>

    <owl:Class rdf:ID="Product">

        <rdfs:label>Product</rdfs:label>

        <owl:disjointWith rdf:resource="#Customer"/>

    </owl:Class>

    <owl:Class rdf:ID="PurchaseAndSale">

        <rdfs:label>PurchaseAndSale</rdfs:label>

        <owl:equivalentClass rdf:resource="#Shop"/>

        <owl:equivalentClass rdf:resource="#Customer"/>

    </owl:Class>

    <owl:DatatypeProperty rdf:ID="name">

        <rdfs:domain rdfs:Resource="#Customer" />

        <rdfs:domain rdfs:Resource="#Shop" />

        <rdfs:range rdfs:Resource="xsd:string" />

        <owl:equivalentProperty rdf:resource="foaf:name" />

    </owl:DatatypeProperty>

    <owl:DatatypeProperty rdf:ID="email">

        <rdfs:domain rdfs:Resource="#Customer" />

        <rdfs:domain rdfs:Resource="#Shop" />

        <rdfs:range rdfs:Resource="xsd:string" />

        <owl:equivalentProperty rdf:resource="foaf:mbox" />

    </owl:DatatypeProperty>

    <owl:DatatypeProperty rdf:ID="orderNumber">

        <rdfs:domain rdfs:Resource="#Product" />

        <rdfs:range rdfs:Resource="xsd:int" />

    </owl:DatatypeProperty>

    <owl:ObjectProperty rdf:ID="sells">

        <rdfs:domain rdfs:Resource="#Shop" />

        <rdfs:range rdfs:Resource="#Product" />

    </owl:ObjectProperty>

    <owl:ObjectProperty rdf:ID="soldBy">

        <rdfs:domain rdfs:Resource="#Product" />

        <rdfs:range rdfs:Resource="#Shop" />

    </owl:ObjectProperty>

    <owl:ObjectProperty rdf:ID="duoc\_day\_boi">

        <rdfs:domain rdfs:Resource="#Sinhvien" />

        <rdfs:domain rdfs:Resource="#Giaovien" />

    </owl:ObjectProperty>

</rdf:RDF>