DAY - 17

Made a RDF on Banking Management System and queried it using SPRAQL on Apache Server.

My Turtle file:

```
@prefix ex: <http://example.org/turtle#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
           ex:is_an "organisation"^^xsd:string;
ex:Bank
           ex:has_name "Punjab_National_Bank"^^xsd:string .
ex:Punjab_National_Bank ex:founded_in "1894"^^xsd:integer;
             ex:has_customer "Suman"^^xsd:string;
             ex:has_customer "Sukhjit"^^xsd:string;
             ex:has_customer "Dhanjot"^^xsd:string;
             ex:has_customer "Rajwinder"^^xsd:string .
ex:Suman ex:lives_in "Chandigarh"^^xsd:string;
          ex:has_gender "Female"^^xsd:string;
          ex:has_age "19"^^xsd:integer;
          ex:born_on "2004-10-20"^^xsd:dateTime;
          ex:has_account "saving_account"^^xsd:string .
ex:Sukhjit ex:lives_in "Mohali"^^xsd:string;
         ex:has_gender "Female"^^xsd:string;
         ex:has_age "40"^^xsd:integer;
         ex:born_on "1985-03-16"^^xsd:dateTime;
         ex:has_account "current_account"^^xsd:string .
ex:Dhanjot ex:lives_in "Pataila"^^xsd:string;
           ex:has_gender "Male"^^xsd:string;
           ex:has_age "17"^^xsd:integer;
```

ex:born_on "2006-05-17"^^xsd:dateTime; ex:has_account "joint_account"^^xsd:string .

ex:Rajwinder ex:lives_in "Ludhiana"^^xsd:string;
ex:has_gender "Male"^^xsd:string;
ex:has_age "50"^^xsd:integer;
ex:born_on "1975-05-06"^^xsd:dateTime;
ex:has_account "fixed_deposit"^^xsd:string .

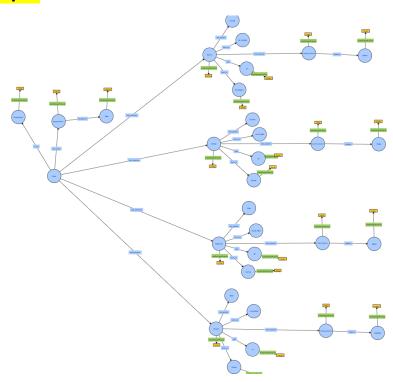
ex:saving_account ex:has_balance "60000" $^$ xsd:integer .

ex:current_account ex:has_balance "70000"^^xsd:integer.

ex:fixed_deposit ex:has_balance "50000"^^xsd:integer.

ex:joint_account ex:has_balance "2000000"^^xsd:integer.

The Graph:



Queries:

/Banking_Management_System/sparql

```
#Find all customers of Punjab National Bank:
PREFIX ex: <http://example.org/turtle#>

SELECT ?customer

WHERE {
    ex:Punjab_National_Bank ex:has_customer ?customer .
}
```

customer 1 Suman 2 Sukhjit 3 Dhanjot 4 Rajwinder

```
Showing 1 to 4 of 4 entries
```

```
#Find age of female customers
PREFIX ex: <http://example.org/turtle#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
SELECT ?customer ?age ?gender
WHERE {
    ?customer ex:has_gender "Female"^^xsd:string .
    ?customer ex:has_age ?age .
}
```



Showing 1 to 2 of 2 entries

/Banking_Management_System/sparql

accountType	totalBalance
1 <http: example.org="" turtle#saving_account=""></http:>	"60000"^^ <http: 2001="" www.w3.org="" xmlschema#integer=""></http:>
2 http://example.org/turtle#fixed_deposit >	"50000"^^ <http: 2001="" www.w3.org="" xmlschema#integer=""></http:>
3 <http: example.org="" turtle#joint_account=""></http:>	"2000000"^^ <http: 2001="" www.w3.org="" xmlschema#integer=""></http:>
4 http://example.org/turtle#current_account	"70000"^^ <http: 2001="" www.w3.org="" xmlschema#integer=""></http:>

Showing 1 to 4 of 4 entries