

Travaux pratiques N°3

Le traitement des exercices est relatif au fichier **rdfu.rdf** qu'il faut implémenter dans le projet.

Exercice 1 :

1. Afficher tous les Triplets (? Subject ? Predicate ? Object) comme suite

```
Problems Javadoc Declaration Console
<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (7 nov. 2019 à 13:30:55)
log4j:WARN No appenders could be found for logger (org.apache.jena.util.FileManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Faculte> ) ( ?Object = "FSBM" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2020" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#MASTER> ) ( ?Object = "Master Bigdata" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Faculte> ) ( ?Object = "FSTM" ) ( ?Subject = <http://masterbigdata/fst/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2019" ) ( ?Subject = <http://masterbigdata/fst/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#MASTER> ) ( ?Object = "Master MI" ) ( ?Subject = <http://masterbigdata/fst/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Faculte> ) ( ?Object = "FSTB" ) ( ?Subject = <http://masterbigdata/fsb/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2017" ) ( ?Subject = <http://masterbigdata/fsb/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#MASTER> ) ( ?Object = "Master BTM" ) ( ?Subject = <http://masterbigdata/fsb/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Faculte> ) ( ?Object = "FSTC" ) ( ?Subject = <http://masterbigdata/fstc/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2018" ) ( ?Subject = <http://masterbigdata/fstc/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#MASTER> ) ( ?Object = "Master PI" ) ( ?Subject = <http://masterbigdata/fstc/> ) -> [Root]
```

2. Afficher les 3 premiers Triplet

```
Problems Javadoc Declaration Console
<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (7 nov. 2019 à 13:49:53)
log4j:WARN No appenders could be found for logger (org.apache.jena.util.FileManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Faculte> ) ( ?Object = "FSBM" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2020" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#MASTER> ) ( ?Object = "Master Bigdata" ) ( ?Subject = <http://masterbigdata/fsbm/> ) -> [Root]
```

3. Afficher tous les Triplets dont la Promotion est inférieure ou égale 2019

```
Problems Javadoc Declaration Console
<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (7 nov. 2019 à 14:02:49)
log4j:WARN No appenders could be found for logger (org.apache.jena.util.FileManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2019" ) ( ?Subject = <http://masterbigdata/fst/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2017" ) ( ?Subject = <http://masterbigdata/fsb/> ) -> [Root]
( ?Predicate = <http://www.w3.org/2001/vcard-rdf/3.0#Promotion> ) ( ?Object = "2018" ) ( ?Subject = <http://masterbigdata/fstc/> ) -> [Root]
```

4. Afficher tous les Objets dont la Promotion est inférieure ou égale 2018

```
Problems Javadoc Declaration Console
<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (7 nov. 2019 à 14:08:18)
log4j:WARN No appenders could be found for logger (org.apache.jena.util.FileManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
( ?Object = "2017" )
( ?Object = "2018" )
```

Exercice 2

Utilisation des fonctions d'agrégation

1. Afficher le nombre d'objets inférieur ou égale à la Promotion 2020
2. Afficher l'année de la dernière Promotion
3. Afficher toutes les informations de la dernière Promotion
4. Reprendre les deux dernières questions avec la première Promotion.