

Binôme : AFRASS ILIAS & TAIBI ANAS

Exercice 1 : Sports collectifs, le retour

1.

```
select DISTINCT ?x where {  
  ?x a rdfs:Class  
}
```

2.

prefix schem: <http://www.labd.org/2015/sport/schema#>

```
SELECT DISTINCT ?x WHERE  
{  
  ?x a rdf:Property  
  ?x rdfs:domain schem:Sport  
}
```

3.

prefix schem: <http://www.labd.org/2015/sport/schema#>

```
SELECT DISTINCT ?x WHERE  
{  
  ?y a schem:Sport  
  ?y ?x ?z  
}
```

4.

prefix schem: <http://www.labd.org/2015/sport/schema#>

```
SELECT DISTINCT ?x WHERE  
{  
  ?x rdfs:comment ?y  
  FILTER regex(?y, "[Ss]port")  
}
```

5.

prefix schem: <http://www.labd.org/2015/sport/schema#>

```
SELECT DISTINCT ?x WHERE  
{  
  ?x a schem:Sport  
  FILTER NOT EXISTS { ?x schem:utiliseMateriel ?y }  
}
```

6.

version avec GROUP BY :

prefix : <http://www.labd.org/2015/sport/schema#>  
prefix hms: <http://www.inria.fr/2007/09/11/humans.rdfs#>

```

SELECT ?x ?y WHERE
{
  ?x a hms:Person
  ?x :pratique ?y
}
GROUP BY ?x
HAVING ( COUNT(?y) > 1)

```

*version sans GROUP BY :*

prefix : <http://www.labd.org/2015/sport/schema#>  
 prefix hms: <http://www.inria.fr/2007/09/11/humans.rdfs#>

```

SELECT DISTINCT ?x ?y WHERE
{
  ?x a hms:Person
  ?x :pratique ?y
  ?x :pratique ?z
  FILTER (?y != ?z)
}

```

7.

*version avec GROUP BY :*

prefix : <http://www.labd.org/2015/sport/schema#>  
 prefix hms: <http://www.inria.fr/2007/09/11/humans.rdfs#>

```

SELECT ?x ?y WHERE
{
  ?x a hms:Person
  ?x :pratique ?y
}
GROUP BY ?x
HAVING ( COUNT(?y) = 1)

```

*version sans GROUP BY :*

prefix : <http://www.labd.org/2015/sport/schema#>  
 prefix hms: <http://www.inria.fr/2007/09/11/humans.rdfs#>

```

SELECT DISTINCT ?x ?y WHERE{
  ?x a hms:Person
  ?x :pratique ?y
  MINUS {
    ?z a hms:Person
    ?z :pratique ?t
    ?z :pratique ?w
    FILTER (?t != ?w)
  }
}

```

8.

prefix : <http://www.labd.org/2015/sport/schema#>  
 prefix hms: <http://www.inria.fr/2007/09/11/humans.rdfs#>

```

SELECT DISTINCT ?x (COUNT(?y) AS ?nb) WHERE{
  ?x a hms:Person

```

```
?x :pratique ?y
}
GROUP BY ?x
```

9.

```
prefix sps: <http://www.labd.org/2015/sport/schema#>
prefix spi: <http://www.labd.org/2015/sport/instance#>
```

```
SELECT ?x WHERE{
spi:Basket sps:match/sps:duree/rdfs:member ?x
}
```

10.

```
prefix sps: <http://www.labd.org/2015/sport/schema#>
prefix spi: <http://www.labd.org/2015/sport/instance#>
SELECT ?x WHERE{
spi:Basket sps:match/sps:duree/rdfs:member ?x
FILTER (contains(?x,"NBA"))
}
```

*OU*

```
prefix sps: <http://www.labd.org/2015/sport/schema#>
prefix spi: <http://www.labd.org/2015/sport/instance#>
SELECT ?x WHERE{
spi:Basket sps:match/sps:duree/rdfs:member ?x
FILTER regex(?x,"NBA")
}
```

11.

```
prefix sps: <http://www.labd.org/2015/sport/schema#>
SELECT ?x ?t WHERE
{
?x a sps:SportCollectif
?x sps:match/sps:duree/rdfs:member ?y
FILTER isLiteral(?y)
}
```

### Exercice 2 : My name is Bond, James Bond

1.

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

```
select ?z ?w where {
?x foaf:name "James Bond"
?x foaf:knows ?y
?y foaf:name ?z
OPTIONAL{ ?y foaf:homepage ?w }
}
```

2.

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

```
select ?z ?w where {
?x foaf:name "James Bond"
```

```

    ?x foaf:knows ?y
    ?y foaf:name ?z
    OPTIONAL{ ?y foaf:homepage ?w }
    OPTIONAL{ ?y foaf:interest ?w }
    OPTIONAL{ ?y foaf:workplaceHomepage ?w }
}

```

### 3.

```

prefix foaf: <http://xmlns.com/foaf/0.1/>
prefix james: <http://bond007.org/RDF/mes_donnees.rdf#>

```

```

select ?n where {
james:me foaf:knows+/foaf:name ?n
FILTER NOT EXISTS { ?n foaf:name "James Bond" }
}

```

### 4.

```

prefix foaf: <http://xmlns.com/foaf/0.1/>
prefix james: <http://bond007.org/RDF/mes_donnees.rdf#>

```

```

select ?y where {
james:me foaf:knows ?y
FILTER NOT EXISTS { ?y foaf:phone ?z }
}

```

### 5.

```

prefix foaf: <http://xmlns.com/foaf/0.1/>
prefix james: <http://bond007.org/RDF/mes_donnees.rdf#>

```

```

select ?x (COUNT(?y) AS ?nb) where {
{
?x a foaf:Person
?x foaf:knows ?y
}
UNION{
?x a foaf:Person
FILTER NOT EXISTS { ?x foaf:know ?y }
}
}
GROUP BY (?x)

```