



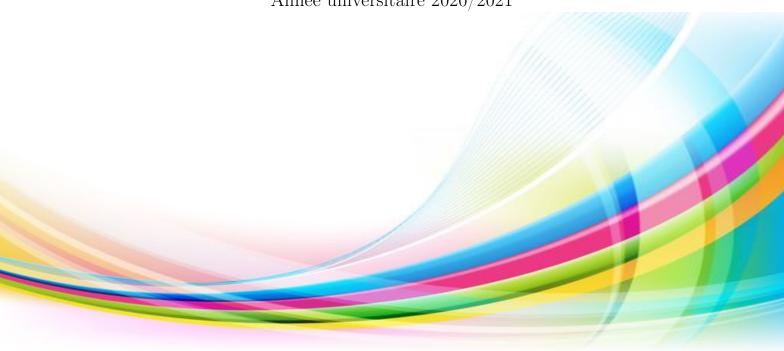
# HMIN103 Données du Web

Rendu TD/TP 4 - XQuery

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## 1. Xquery: Trains (suite)

#### Question 1

Le numéro des trains possédant une voiture-bar :

```
for $train in /gare/train
where $train//bar
return $train/@numero/string()
```

#### Question 2

Le nom des usages ayant au moins une réservation :

```
let $id_reservations := //resa/@id
for $usager in /gare/usager
    where $usager/@id = $id_reservations
        return $usager/@nom/string()
```

## Question 3

La reservation avec le plus grand identifiant (dans l'ordre lexicographique):

```
let $x := for $resa in //resa order by $resa/@numero return $resa return $x[last()]
```

## Question 4

Le numéro des trains dont au moins2places sont réservées :

```
for $x in //train
    where $x[count(.//resa) > 1]
        return $x/@numero/string()
```

## Question 5

Le nom des personnes ayant réservé exactement deux fois :

```
for $x in //usager
where count(//resa[@id = $x/@id]) = 2
return $x/@nom/string()
```

Les usagers n'ayant effectué aucune réservation :

```
for $x in //usager
   where count(//resa[@id = $x/@id]) = 0
   return $x/@nom/string()
```

## 2.XMark

## Question 1

All the items:

//item

## Question 2

The keywords in annotations of closed auctions :

```
for $x in //closed_auctions
    return $x//keyword
```

## Question 3

All the keywords

//keywords

## Question 4

The keywords in a paragraph item :

```
for $x in //item
  for $y in $x//keyword
    return $y
```

## Question 5

The (either North or South.) American items:

```
let $x := //namerica/item
let $y := //samerica/item
return ($x,$y)
```

The paragraph items containing a keyword:

```
for $x in //item
for $y in $x//text
where exists($y//keyword)
return $y
```

## Question 7

The mails containing a keyword:

```
for $x in //mail
where $x//keyword
return $x
```

## Question 8

The open auctions in which a certain person issued a bid before another person:

```
for $x in //open_auction
  return $x[count(.//bidder) > 1]
```

#### Question 9

The past bidders of a given open auction:

NB : notre 'order by' ne fonctionne pas, donc la requête ci-dessous renvoie tout les bidders sauf le dernier de la liste. Si il fonctionne correctement on aurait donc renvoyé tout les précédents bidders.

```
let $res :=
   for $x in //open_auction[@id='open_auction0']
      for $y in $x/bidder order by $y//date
           return $y
return $res[position() < last()]</pre>
```

#### Question 10

The items that follow, in document order, a given item:

NB: On ne savait pas si il fallait donner les frères et soeurs (following-sibling) ou bien l'ensemble au complet d'ou le fait qu'on propose deux requêtes différentes. Ici on as choisis pour item donné, l'item portant l'id suivant : 'item10'

```
for $x in //regions//item[@id='item10'] return $x/following::item
ou
for $x in //regions//item[@id='item10'] return $x/following-sibling::item
```

The text nodes that are contained in the keywords of the description element of a given item:

Ici on as choisis pour item donné, l'item portant l'id suivant : 'item20'

```
for $x in //item[@id='item20']/description//keyword return $x
```

#### Question 12

People having an address and either a phone or a homepage:

```
for $x in //person
where $x//address
where $x//homepage or $x//phone
return $x
```

## Question 13

People having no homepage:

```
for $x in //person
where not ($x//homepage)
return $x
```

## Question 14

The initial and last bidder of all open auctions:

```
let $x := //bidder[last()]
let $y := //bidder[position() = 1]
return ($x,$y)
```

## Question 15

The open auctions having more than 5 bidders:

```
for $x in //open_auction
where $x[count($x//bidder) > 5]
return $x
```

## Question 16

Mails sent in September:

```
for $x in //mail
where matches($x//date, '09/.*/.*')
return $x
```

The items whose description contains the word 'gold' :

```
let $x := //description
return $x[contains(text, 'gold')]
```