

Lab10

Name:..Mohammad

Student id:100755461

Section:005

CRN:44762

Part1 a

XPath matching XPath 2.0 XQuery 3.1 XPath 3.0 selectors Annotations

1 <BARS>
2 <BAR><NAME>Joe's Bar</NAME>
3 <BEER><NAME>Bud</NAME>
4 <PRICE>2.50</PRICE></BEER>
5 <BEER><NAME>Miller</NAME>
6 <PRICE>3.00</PRICE></BEER>
7 </BAR>
8 </BARS>
9

1 xquery version "3.0";
2 BARS/BAR/BEER
3

Submit Query ☐ disable auto refresh ☐ disable syntax highlighting

Output Options: Node format: text Output format: adhoc ☐ Show types ☐ Hide variable names

Compatibility: Enable all extensions

Old languages: ☐ XPath 2.0 ☐ XPath 3.0 ☐ XQuery 1.0 ☐ XQuery 3.0

Result of the above expression applied to the above HTML file:

```
1 Bud
2      2.50
3 Miller
4      3.00
5
```

b

```
1 <BARS>
2   <BAR><NAME>Joe's Bar</NAME>
3     <BEER><NAME>Bud</NAME>
4       <PRICE>2.50</PRICE></BEER>
5     <BEER><NAME>Miller</NAME>
6       <PRICE>3.00</PRICE></BEER>
7   </BAR>
8 </BARS>
9
```

```
1 xquery version "3.0";
2 for $beer in BARS/BAR/BEER
3 where $beer/PRICE > 2.5
4 order by $beer/PRICE
5 return $beer
6
```

Submit Query ☐ disable auto refresh ☐ disable syntax highlighting

Output Options: Node format: Output format: ☐ Show types ☐ Hide variable names

Compatibility:

Old languages: ☐ XPath 2.0 ☐ XPath 3.0 ☐ XQuery 1.0 ☐ XQuery 3.0

Result of the above expression applied to the above HTML file:

```
1 Miller
2       3.00
3
```

```
<Movies>
  <MOVIE>
    <Title>Spiderman3 </Title>
    <Year_of_production>2017</Year_of_production>
    <budget>2000000</budget>
    <director>sam raimi</director>
    <rating>9.7</rating>
    <duration>139 minutes</duration>
    <actor>
      <name>tobey maguire</name>
      <age>47</age>
      <country>USA</country>
    </actor>
    <actor>
      <name>topher grace</name>
      <age>44</age>
      <country>USA</country>
    </actor>
  </MOVIE>
  <MOVIE>
    <Title>blackadam </Title>
    <Year_of_production>2022</Year_of_production>
    <budget>2000000</budget>
    <director>jaume collet-serra</director>
    <rating>6.9</rating>
    <duration>125 minutes</duration>
    <actor>
      <name>dwayne johnson</name>
      <age>47</age>
      <country>USA</country>
    </actor>
    <actor>
      <name>pierce brisnan</name>
      <age>69</age>
      <country>Irland</country>
    </actor>
  </MOVIE>
  <MOVIE>
    <Title>avatar:the way of water </Title>
    <Year_of_production>2017</Year_of_production>
    <budget>2500000</budget>
    <director>james cameron</director>
```

```

    <rating>9.7</rating>
    <duration>162 minutes</duration>
    <actor>
      <name>zoe saldana</name>
      <age>25</age>
      <country>USA</country>
    </actor>
    <actor>
      <name>zoe saldana</name>
      <age>44</age>
      <country>USA</country>
    </actor>
  </MOVIE>
</MOVIES>

```

Part2

```

22      <actor>
23        <name>dwayne johnson</name>
24        <age>50</age>
25        <country>USA</country>
26      </actor>
27    </MOVIE>
28    <MOVIE>
29      <Title>avatar:the way of water </Title>
30      <Year_of_production>2016</Year_of_production>
31      <budget>2500000</budget>
32      <director>james cameron</director>
33      <rating>9.7</rating>
34      <duration>162 minutes</duration>
35      <actor>
36        <name>zoe saldana</name>
37        <age>25</age>
38        <country>USA</country>
39      </actor>
40    </MOVIE>
41

```

```

1  for $actor in MOVIES/MOVIE/actor
2  where $actor/age <35
3  order by $actor/age
4  return $actor
5

```

Submit Query
☐ disable auto refresh
☐ disable syntax highlighting

Output Options: Node format: text Output format: ad hoc
☐ Show types
☐ Hide variable names

Compatibility: Enable all extensions

Old languages:
☐ XPath 2.0
☐ XPath 3.0
☐ XQuery 1.0
☐ XQuery 3.0

Result of the above expression applied to the above HTML file:

```

1
2      zoe saldana
3      25
4      USA
5
6

```

Part3

HTML/XML/JSON-input file: auto

☐ Pattern matching ☐ XPath 3.1 ☒ XQuery 3.1 ☐ CSS 3.0 selectors ☐ Autodetect

```
22 <actor>
23   <name>dwayne johnson</name>
24   <age>50</age>
25   <country>USA</country>
26 </actor>
27 </MOVIE>
28 <MOVIE>
29   <Title>avatar:the way of water </Title>
30   <Year_of_production>2017</Year_of_production>
31   <budget>25000000</budget>
32   <director>james cameron</director>
33   <rating>9.7</rating>
34   <duration>162 minutes</duration>
35   <actor>
36     <name>zoe saldana</name>
37     <age>25</age>
38     <country>USA</country>
39   </actor>
40 </MOVIE>
41
```

```
1 for $MOVIE in MOVIES/MOVIE
2 where $MOVIE/Year_of_production<2018 and $MOVIE/Year_of_production>2016
3 order by $MOVIE/Title descending
4 return $MOVIE
5
```

☐ disable auto refresh ☐ disable syntax highlighting

Output Options: Node format: text Output format: ad hoc ☐ Show types ☐ Hide variable names

Compatibility: Enable all extensions

Old languages: ☐ XPath 2.0 ☐ XPath 3.0 ☒ XQuery 1.0 ☐ XQuery 3.0

Result of the above expression applied to the above HTML file:

```
1 Spiderman3
2 2017
3 2000000
4 sam reimi
5 9.7
6 139 minutes
7
8 tobey maguire
9 47
10 USA
11
12
13
14 avatar:the way of water
15 2017
16 2500000
17 james cameron
18 9.7
19 162 minutes
20
21 zoe saldana
22 25
23 USA
24
25
26
```