**Create XML, XML schemas , DTD for any database application and implement min 10 queries using XQuery FLOWR expression and XPath**

**Queries:-**

1. **Write a query using XQuery FLOWR to retrieve data :Display the first name of the students**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

return $x/firstname

1. **Write a query using XQuery FLOWR to implement ORDER BY clause: Retrieve nickname with orderby clause**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

order by $x/nickname

return $x/nickname

1. **Write a query using XQuery FLOWR to implement ORDER BY clause with where condition: Display the first name (Order by) of the student whose marks are greater than 88**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

where $x/marks>88

order by $x/firstname

return $x/firstname

1. **Write a query using XQuery FLOWR to implement ORDER BY ASCENDING:Display the first name (Order by ascending ) of the student whose marks are greater than 88**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

where $x/marks>88

order by $x/firstname ascending

return $x/marks

1. **Write a query using XQuery FLOWR to implement ORDER BY DESCENDING :**

**Display the first name (Order by Descending ) of the student whose marks are greater than 88**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

where $x/marks>88

order by $x/firstname descending

return $x/marks

1. **Write a query using XQuery FLOWR to retrieve data Using IF ELSE condition:**

**Display good if marks is less than 88 else excellent along with first name of the student**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

return if ($x/marks<88)

then <Good>{data($x/firstname)}</Good>

else <Excellent>{data($x/firstname)}</Excellent>

1. **Write a query using XQuery FLOWR to retrieve data Using WHERE clause with AND condition: Display the nickname of the student whose firstname is ‘Jasvir’ and marks is 90**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

where $x/firstname= "Jasvir" and $x/marks = "90"

return $x/nickname

1. **Write a query using XQuery FLOWR to list all the Student First Name in an HTML list. (add <ul> and <li> tags to the FLWOR expression) : Display lastname in HTML list**

**Answer:**

**Query:**

xquery version "1.0";

<ul>

{

for $x in doc("Student.xml") /Studentdata/student

order by $x/lastname

return <li>{$x/lastname}</li>

}

</ul>

1. **Write a query using XQuery FLOWR to eliminate the title element, and show only the data inside the title element : Display Only data inside title**

**Answer:**

**Query:**

xquery version "1.0";

<ul>

{

for $x in doc("Student.xml") /Studentdata/student

order by $x/lastname

return <li>{data($x/lastname)}</li>

}

</ul>

1. **Write a query using XQuery FLOWR to counts the occurrence of firstname listed for each Student in a data file: Count occurrences of firstname**

**Answer:**

**Query:**

xquery version "1.0";

for $x in doc("Student.xml") /Studentdata/student

return count($x/firstname)