

# XQUERY QUERIES

```
1. for $x in doc("my_market.xml")/SHOP/CATEGORY/PRODUCT
where $x/PRICE < 600
return data($x/NAME)
```

**#Output:** Samsung, Levis

```
2. for $x in doc("my_market.xml")/SHOP/CATEGORY/PRODUCT
where $x/PRICE >= 1100
return data($x)
```

**#Output:**

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
  iPhone XS
```

```
  Rose Gold phone bezel less phone with Super AMLOED Screen
```

```
  1146
```

```
  9
```

```
    Rohit Roy
```

```
    5/11/18
```

```
    Best iPhone ever!!
```

```
3. for $x in doc("my_market.xml")/SHOP/CATEGORY
where $x/@NAME = "Computer"
return <li>{data($x/PRODUCT/NAME)} - {data($x/@NAME)}</li>
```

## #Ouput

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<li>Apple HP - Computer</li>
```

4. <html>

```
<body>
```

```
<h1>SHOP</h1>
```

```
<ul>
```

```
{
```

```
    for $x in doc("my_market.xml")/SHOP/CATEGORY
```

```
    order by $x/@NAME
```

```
    return <li>{data($x/PRODUCT/NAME)}- Category: {data($x/@NAME)}</li>
```

```
}
```

```
</ul>
```

```
</body>
```

```
</html>
```

## #Output

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<html>
```

```
<body>
```

```
<h1>SHOP</h1>
```

```
<ul>
```

```
<li>Apple HP - Category: Computer</li>
```

```
<li>Samsung iPhone XS - Category: Electronics</li>
```

```
<li>Raymonds Levis - Category: Clothing</li>
```

```
</ul>
```

```
</body>
</html>
```

```
5. for $x in doc("my_market.xml")/SHOP/CATEGORY
return if ($x/@NAME="Clothes")
then <clothes>{data($x/PRODUCT/NAME)}</clothes>
else <Electronics>{data($x/PRODUCT/NAME)}</Electronics>
```

### #Output

```
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <body>
    <h1>SHOP</h1>
    <ul>
      <li>Apple HP - Category: Computer</li>
      <li>Samsung iPhone XS - Category: Electronics</li>
      <li>Raymonds Levis - Category: Clothing</li>
    </ul>
  </body>
</html>
```

# XPATH QUERIES

1. //CATEGORY[1]

## #Output

```
<?xml version="1.0" encoding="UTF-8"?>
<CATEGORY NAME= "Computer">
  <PRODUCT>
    <NAME>Apple</NAME>
    <DESCRIPTION>A White Laptop with 2GB RAM and i5 Processor</DESCRIPTION>
    <PRICE>750</PRICE>
    <RATING>9</RATING>
  </PRODUCT>
  <PRODUCT>
    <NAME>HP</NAME>
    <DESCRIPTION>Red Laptop with 16GB RAM and i7 Processor</DESCRIPTION>
    <PRICE>800</PRICE>
    <RATING>6</RATING>
  </PRODUCT>
</CATEGORY>
```

## 2. /SHOP/CATEGORY/PRODUCT

### #Output

```
<?xml version="1.0" encoding="UTF-8"?>
<PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <PRODUCT>
    <NAME>Apple</NAME>
    <DESCRIPTION>A White Laptop with 2GB RAM and i5 Processor</DESCRIPTION>
    <PRICE>750</PRICE>
    <RATING>9</RATING>
  </PRODUCT>
</PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <PRODUCT>
    <NAME>HP</NAME>
    <DESCRIPTION>Red Laptop with 16GB RAM and i7 Processor</DESCRIPTION>
    <PRICE>800</PRICE>
    <RATING>6</RATING>
  </PRODUCT>
</PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <NAME>Samsung</NAME>
    <DESCRIPTION>White phone with 5.8 inches OLED screen and Cynaogen
  OS</DESCRIPTION>
  <PRICE>200</PRICE>
  <RATING>4</RATING>
</PRODUCT>
  <PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <NAME>iPhone XS</NAME>
    <DESCRIPTION>Rose Gold phone bezel less phone with Super AMLOED
    Screen</DESCRIPTION>
    <PRICE>1146</PRICE>
    <RATING>9</RATING>
    <COMMENT>
      <PERSON>Rohit Roy</PERSON>
      <DATE>5/11/18</DATE>
      <DESC>Best iPhone ever!!</DESC>
    </COMMENT>
  </PRODUCT>
</PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <NAME>Raymonds</NAME>
```

```

<DESCRIPTION>Black Suite</DESCRIPTION>
<PRICE>1000</PRICE>
<RATING>7</RATING></PRODUCT>
<PRODUCT xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <NAME>Gucci</NAME>
  <NAME>Levis</NAME>
  <DESCRIPTION>Jeans</DESCRIPTION>
  <PRICE>50</PRICE>
  <RATING>6</RATING>
</PRODUCT>

```

### 3. /SHOP/CATEGORY/PRODUCT[PRICE>1100]

#### #Output

```

<?xml version="1.0" encoding="UTF-8"?>
<PRODUCT>
  <NAME>iPhone XS</NAME>
  <DESCRIPTION>Rose Gold phone bezel less phone with Super AMOLED
Screen</DESCRIPTION>
  <PRICE>1146</PRICE>
  <RATING>9</RATING>
  <COMMENT>
    <PERSON>Rohit Roy</PERSON>
    <DATE>5/11/18</DATE>
    <DESC>Best iPhone ever!!</DESC>
  </COMMENT>
</PRODUCT>

```

4. //CATEGORY[@NAME="Clothing"]

**#Output:**

```
<?xml version="1.0" encoding="UTF-8"?>
<PRODUCT>
  <NAME>Raymonds</NAME>
  <DESCRIPTION>Black Suite</DESCRIPTION>
  <PRICE>1000</PRICE>
  <RATING>7</RATING>
</PRODUCT>

<PRODUCT>
  <NAME>Levis</NAME>
  <DESCRIPTION>Jeans</DESCRIPTION>
  <PRICE>50</PRICE>
  <RATING>6</RATING>
</PRODUCT>
```

5. //PRODUCT[RATING>5]/NAME

**#Output:**

```
<?xml version="1.0" encoding="UTF-8"?>
<NAME xmlns:xs="http://www.w3.org/2001/XMLSchema">Apple</NAME>
<NAME xmlns:xs="http://www.w3.org/2001/XMLSchema">HP</NAME>
<NAME xmlns:xs="http://www.w3.org/2001/XMLSchema">iPhone XS</NAME>
<NAME xmlns:xs="http://www.w3.org/2001/XMLSchema">Raymonds</NAME>
<NAME xmlns:xs="http://www.w3.org/2001/XMLSchema">Levis</NAME>
```