Tutorial: eXist-db

Your company, Apasaja Private Limited, is commissioned by an online music database company to design and prototype XML version of a database application for the company's service. You are provided with a sample XML document.

1. Download the following file from Luminus "`Luminus Files > Cases > Music Library`.

   `library.xml`.

   The following is an excerpt of the XML document "`library.xml`".

```xml
<?xml version="1.0" encoding="UTF-8"?>
<library>
    <album>
        <title>Bua Hati</title>
        <artists>
            <artist>
                <name>Anang Ashanty</name>
                <country>Indonesia</country>
            </artist>
            <artist>
                <name>Kris Dayanti</name>
                <country>Indonesia</country>
            </artist>
        </artists>
        <songs>
            <song>
                <title>Timang-Timang</title>
                <duration>5:13</duration>
            </song>
            <song>
                <title>Miliki Diriku</title>
                <duration>5:35</duration>
            </song>
            <song>
                <title>Bua Hati</title>
                <duration>5:07</duration>
            </song>
        </songs>
        <genres>
            <genre>Pop</genre>
            <genre>World</genre>
        </genres>
        <year>1998</year>
    </album>
    ...
</library>
```

2. Make sure that you have Java version 8 or download and install it from `https://www.java.com/en/download/manual.jsp`.

3. Download and install eXist-db 6.0.1 from `https://github.com/eXist-db/exist/releases/tag/eXist-6.0.1`

4. Validate the following XML document.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE root [
<!ELEMENT root ANY>
```

```
<!ELEMENT a (#PCDATA|b)*>
<!ELEMENT b EMPTY>
<!ATTLIST a c CDATA #REQUIRED>
]>
<root>
<a c="2"><b/></a>
<a c="1">hello</a>
</root>
```

5. Evaluate the following XPath query. It finds the title of the albums in the library.

```
/library/album/title
```