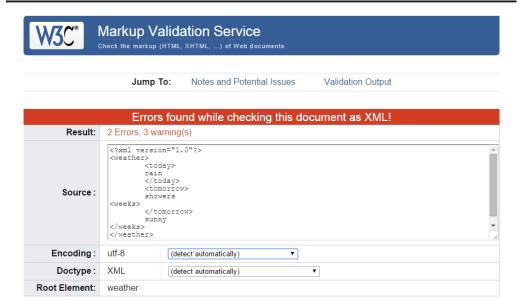
1.1

- 1.2 Version 1.0 of XML is being used.
- 1.3 The XML document is well-formed, meaning that the code is syntactically correct.
- 1.4

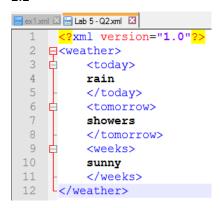
rain showers unsettled

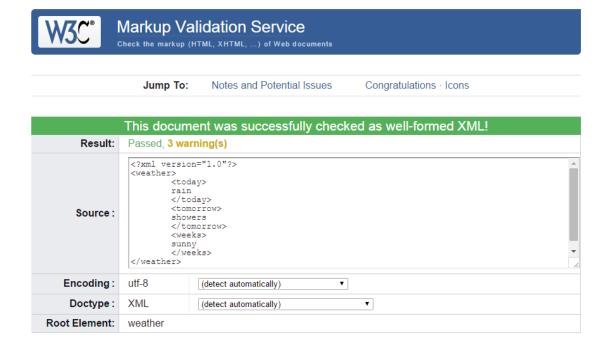
2.

```
ex1xml 🖾 🔚 Lab 5 - Q2xml 🔼
       <?xml version="1.0"?>
  2
     □<weather>
           <today>
  4
           rain
  5
           </today>
  6
           <tomorrow>
  7
           showers
  8
     d<weeks>
  9
           </tomorrow>
 10
           sunny
 11
       </weeks>
      L</weather>
```



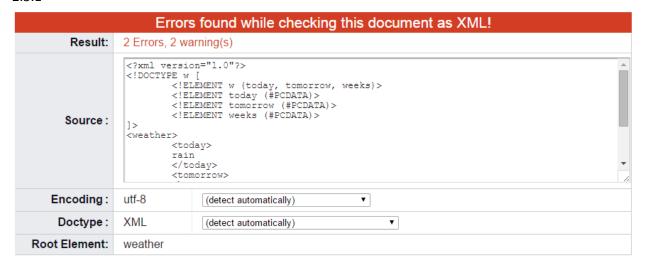
## 2.2





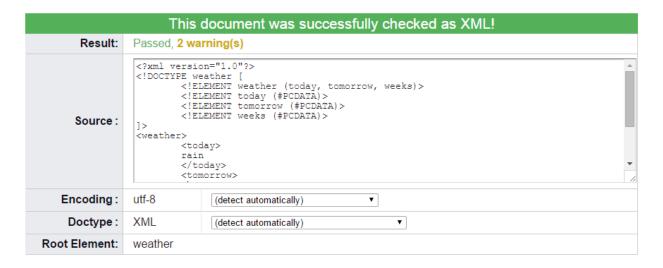
```
E ex1xml ☑ E Lab 5 - Q2xml ☑
      <?xml version="1.0"?>
     □<!DOCTYPE w [
          <!ELEMENT w (today, tomorrow, weeks)>
  4
           <!ELEMENT today (#PCDATA)>
  5
           <!ELEMENT tomorrow (#PCDATA)>
          <!ELEMENT weeks (#PCDATA)>
  6
  7
    ]>
  8 ⊟<weather>
  9 🛱
          <today>
 10
          rain
 11
          </today>
 12 卓
          <tomorrow>
 13
          showers
 14
          </tomorrow>
 15
        <weeks>
 16
          sunny
 17
          </weeks>
 18
     L</weather>
```

## 2.3.1



## 2.3.2

```
ex1xml 🖾 🔚 Lab 5 - Q2xml 🚨
      <?xml version="1.0"?>
     □<!DOCTYPE weather [
  3
          <!ELEMENT weather (today, tomorrow, weeks)>
           <!ELEMENT today (#PCDATA)>
  4
  5
           <!ELEMENT tomorrow (#PCDATA)>
  6
           <!ELEMENT weeks (#PCDATA)>
  7
     ]>
  8
    □<weather>
  9
          <today>
 10
          rain
 11
          </today>
 12
          <tomorrow>
 13
          showers
 14
           </tomorrow>
 15
          <weeks>
 16
           sunny
 17
           </weeks>
 18
      L</weather>
```



## 2.3.3

## 2.3.4

```
ex1xml 🗵 🔚 Lab 5 - Q2xml 🗵 📙 forecast.dtd 🗵
       <?xml version="1.0" standalone="no"?>
       <!DOCTYPE weather-forecast SYSTEM "forecast.dtd">
     3
  4
           <today>
  5
           rain
  6
           </today>
  7
           <tomorrow>
  8
           showers
  9
           </tomorrow>
 10
           <weeks>
 11
           sunny
 12
           </weeks>
      L</weather>
```

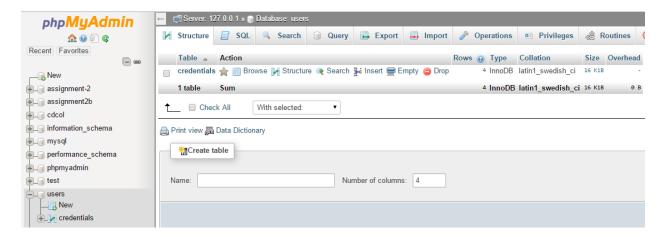
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<meather>
  <today>rain</today>
  <tomorrow>showers</tomorrow>
  <meeks>sunny</meeks>
  </meather>
```

```
ex1xml 🗵 📙 Lab 5 - Q2xml 🗵 📙 forecast.dtd 🗵 들 qualifications.dtd 🗵 📙 ex3xml 🗵
     <!ELEMENT qualifications (qualification+, higher-qualification?, institution+)>
  2 <!ELEMENT qualification (year, (certificate | diploma | degree))>
  3 <!ELEMENT higher-qualification EMPTY>
  4 <!ELEMENT year (#PCDATA)>
  5 <!ELEMENT certificate (#PCDATA)>
  6 <!ELEMENT diploma (#PCDATA)>
  7 <!ELEMENT degree (#PCDATA)>
  8 <!ELEMENT institution (name)>
  9 <!ELEMENT name (#PCDATA)>
E ex1xml ☑ E Lab 5 - Q2xml ☑ Forecast.dtd ☑ E qualifications.dtd ☑ E ex3xml ☑
        <?xml version='1.0'?>
        <!DOCTYPE qualifications SYSTEM "qualifications.dtd">
     □<qualifications>
  4
            <qualification>
  5
                 <year>2001</year>
  6
                 <diploma>Electronic Engineering</diploma>
  7
            </qualification>
  8 🖨
            <qualification>
  9
                 <year>2005
                 <degree>Computer Science</degree>
 10
 11
            </qualification>
 12
            <higher-qualification/>
 13
            <institution>
 14
                 <name>Oxford University</name>
 15
            </institution>
 16 🖨
            <institution>
 17
                 <name>MIT</name>
 18
             </institution>
 19
      L</gualifications>
This XML file does not appear to have any style information associated with it. The document tree is shown below.
 ▼<qualifications
   <qualification>
    <vear>2001
    <diploma>Electronic Engineering</diploma>
   </qualification>
  ▼<qualification>
    <year>2005</year>
    <degree>Computer Science</degree>
   </qualification>
   <higher-qualification/>
  ▼<institution>
   <name>Oxford University</name>
</institution>
   <name>MIT</name>
</institution>
 </aualifications>
```

- 3.1 XML is case sensitive, both the markup and the text.
- 3.2 The qualification element implements any of several choices (given by the | operator symbol).
- 3.3 The higher-qualification element is optional (given by the ? operator symbol).
- 3.4 Both the qualification and institution elements must be listed in the XML at least once (+).
- 3.5 In a Document Type Definition, the + operator symbol means there must be at least one or more appearances of an element in the XML.

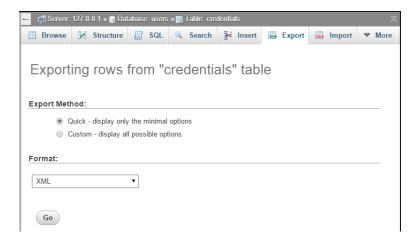
4.1



4.2



# 4.3/4.4



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<!--
  - phpMyAdmin XML Dump
  - version 4.4.14
  - https://www.phpmyadmin.net
  - Host: 127.0.0.1
  - Generation Time: Nov 23, 2015 at 05:06 AM
  - Server version: 5.6.26
  - PHP Version: 5.6.12
 -->
▼<pma_xml_export xmlns:pma="http://www.phpmyadmin.net/some_doc_url/" version="1.0">
  <!--
      - Structure schemas
 ▼<pma:structure_schemas>
   ▼<pma:database name="users" collation="latin1_swedish_ci" charset="latin1">
    ▼<pma:table name="credentials">
       CREATE TABLE `credentials` ( `username` varchar(30) NOT NULL, `password` varchar(50) NOT NULL, `email` varchar(50) NOT
       NULL, 'cv' blob ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
      </pma:table>
    <!--
      - Database: 'users'
       -->
 ▼<database name="users">
    <!-- Table credentials
   ▼
      <column name="username">john</column>
      <column name="password">red</column>
<column name="email">john@hr.com</column>
      <column name="cv">NULL</column>
    ▼
      <column name="username">simon</column>
      <column name="password">green</column>
<column name="email">simon@hr.com</column>
      <column name="cv">NULL</column>
    ▼
      <column name="username">liz</column>
      <column name="password">blue</column>
      <column name="email">liz@hr.com</column>
      <column name="cv">NULL</column>
    ▼
      <column name="username">alex</column>
      <column name="password">yellow</column>
      <column name="email">alex@hr.com</column>
      <column name="cv">NULL</column>
    </database>
 /pma_xml_export>
```

```
5.1
E ex1xml ☑ E Lab 5 - Q2xml ☑ Forecast.dtd ☑ E qualifications.dtd ☑ E ex3xml ☑ ex3.php ☑
       <!DOCTYPE html>
   4
   5 点<?php
       $xml=simplexml load file("ex3.xml");
   6
   7
       print r($xml);
  8
  9
 10
      -</body>
 11
      </html>
E ex1xml ☑ E Lab 5 - Q2xml ☑ E forecast.dtd ☑ E qualifications.dtd ☑ E ex3xml ☑
       <?xml version='1.0'?>
       <!DOCTYPE qualifications SYSTEM "qualifications.dtd">
  4
          <qualification>
  5
               <year>2001
  6
               <diploma>Electronic Engineering</diploma>
  7
           </qualification>
  8 🛱
           <qualification>
  9
              <year>2005
 10
               <degree>Computer Science</degree>
 11
          </gualification>
 12
          <higher-qualification/>
 13 点
          <institution>
               <name>Oxford University</name>
 14
 15
          </institution>
 16 🖨
           <institution>
 17
              <name>MIT</name>
 18
           </institution>
 19 L</qualifications>
```

SimpleXMLElement Object ( [qualification] => Array ( [0] => SimpleXMLElement Object ( [year] => 2001 [diploma] => Electronic Engineering ) [1] => SimpleXMLElement Object ( [year] => 2005 [degree] => Computer Science ) ) [higher-qualification] => SimpleXMLElement Object ( ) [institution] => Array ( [0] => SimpleXMLElement Object ( [name] => Oxford University ) [1] => SimpleXMLElement Object ( [name] => MIT ) ) )