**Modern Education Society’s**

**College of Engineering, Pune**

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| **NAME OF STUDENT: CLASS:** |
| **SEMESTER/YEAR: ROLL NO:** |
| **DATE OF PERFORMANCE: DATE OF SUBMISSION:** |
| **EXAMINED BY: EXPERIMENT NO: 03** |

###### TITLE: Development of an XML document.

**PROBLEM STATEMENT:** Design the XML document to store the information of the employees of any business organization and demonstrate the use of: a) DTD b) XML Schema and display the content in (e.g., tabular format) by using CSS/XSL.

### **OBJECTIVES:**

1. Understand basic concepts of XML.
2. Understand basic concepts of DTD.
3. Understand basic concepts of XSL.

### **OUTCOMES:**

1. Designing XML document.

**PRE-REQUISITES:**

* 1. Knowledge of editor, browser.
  2. Knowledge of DTD, XML, CSS, XSL.

**APPARATUS:**

Computer Machine, Browser, Code Editor, Java or Python XML Parser / Server, etc

**QUESTIONS:**

1. What is an XML Element? explain with example.

2. What is a DTD? Explain the purpose of DTD.

3. What is XSL and how does it work?

4. What is the need of XML?

**CODE:**

*employees.xml*

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

<!DOCTYPE employees [

    <!ELEMENT employees (employee+)>

    <!ELEMENT employee (id, name, department, salary)>

    <!ELEMENT id (#PCDATA)>

    <!ELEMENT name (#PCDATA)>

    <!ELEMENT department (#PCDATA)>

    <!ELEMENT salary (#PCDATA)>

]>

<?xml-stylesheet type="text/xsl" href="employees.xsl" ?>

<employees xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

           xsi:schemaLocation="employees.xsd">

    <employee>

        <id>1</id>

        <name>Aditya</name>

        <department>Technician</department>

        <salary>100000</salary>

    </employee>

    <employee>

        <id>2</id>

        <name>Akhilesh</name>

        <department>Technical Support</department>

        <salary>200000</salary>

    </employee>

    <employee>

        <id>3</id>

        <name>Parth</name>

        <department>HR</department>

        <salary>300000</salary>

    </employee>

    <employee>

        <id>4</id>

        <name>Prathamesh</name>

        <department>Developer</department>

        <salary>800000</salary>

    </employee>

    <employee>

        <id>5</id>

        <name>Sahil</name>

        <department>Tester</department>

        <salary>500000</salary>

    </employee>

    <employee>

        <id>6</id>

        <name>Kaustubh</name>

        <department>CEO</department>

        <salary>1</salary>

    </employee>

</employees>

*employees.xsl*

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

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

    <xsl:template match="/">

        <html>

            <head>

                <style>

                    table {

                        border-collapse: collapse;

                        width: 100%;

                    }

                    th, td {

                        border: 1px solid #ddd;

                        padding: 8px;

                        text-align: left;

                    }

                </style>

            </head>

            <body>

                <h1>Employee Information</h1>

                <table>

                    <tr>

                        <th>ID</th>

                        <th>Name</th>

                        <th>Department</th>

                        <th>Salary</th>

                    </tr>

                    <xsl:for-each select="employees/employee">

                        <tr>

                            <td><xsl:value-of select="id"/></td>

                            <td><xsl:value-of select="name"/></td>

                            <td><xsl:value-of select="department"/></td>

                            <td><xsl:value-of select="salary"/></td>

                        </tr>

                    </xsl:for-each>

                </table>

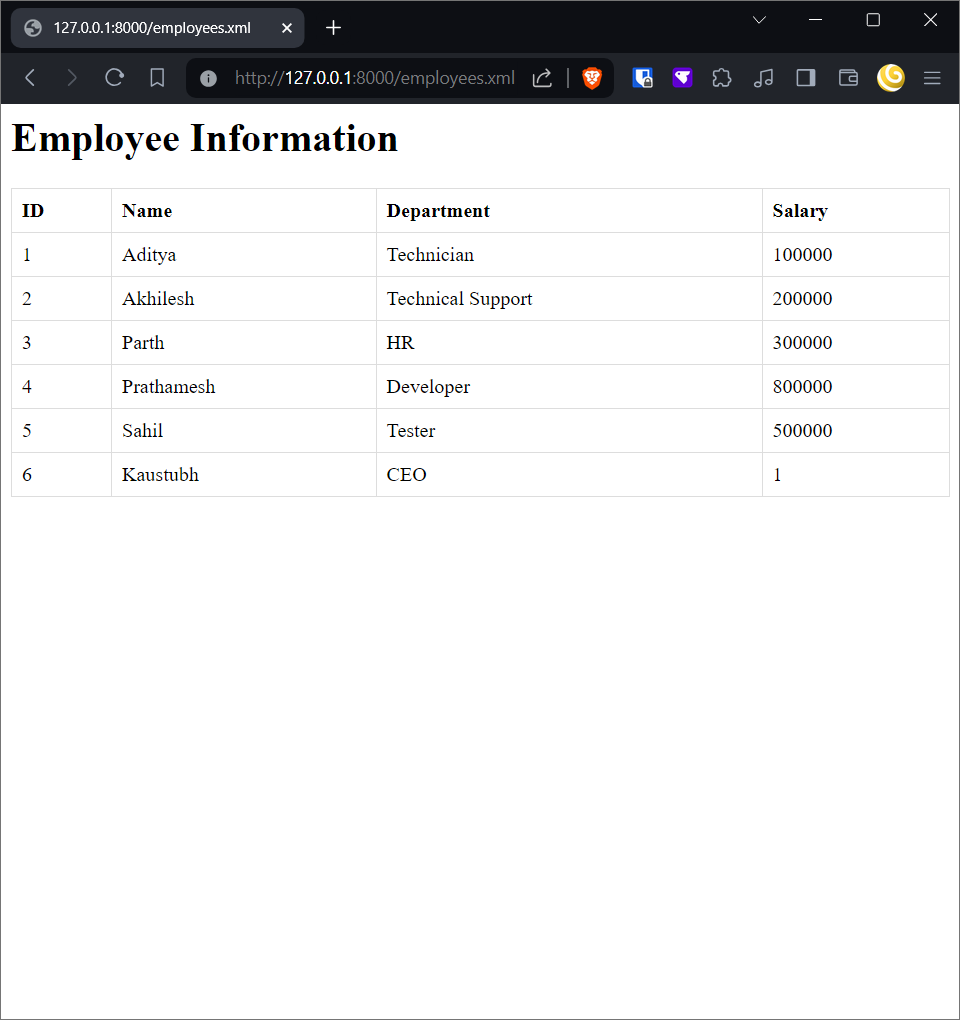
            </body>

        </html>

    </xsl:template>

</xsl:stylesheet>

**OUTPUT:**

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