## 1. Employees.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="./Employees.xsl"?>
<employees>
  <employee id="E101">
    <name>Arjun Sharma</name>
    <department>IT</department>
    <designation>Frontend Developer</designation>
    <salary>72000</salary>
    <hiredate>2023-06-15</hiredate>
    <projects>
      <project>UI Redesign</project>
      <project>Landing Page</project>
    </projects>
  </employee>
  <employee id="E102">
    <name>Ravi Kulkarni</name>
    <department>IT</department>
    <designation>Backend Developer</designation>
    <salary>75000</salary>
    <hiredate>2022-11-10</hiredate>
    <projects>
      <project>API Integration</project>
    </projects>
  </employee>
  <employee id="E103">
    <name>Manoj Patil</name>
    <department>IT</department>
    <designation>DevOps Engineer</designation>
    <salary>79000</salary>
    <hiredate>2023-01-20</hiredate>
    <projects>
      <project>CI/CD Setup</project>
    </projects>
  </employee>
  <employee id="E104">
    <name>Sachin Rane</name>
    <department>IT</department>
    <designation>System Administrator</designation>
    <salary>68000</salary>
    <hiredate>2021-12-05</hiredate>
    <projects>
      <project>Server Maintenance</project>
```

```xml
    </projects>
  </employee>
  <employee id="E105">
    <name>Vivek Desai</name>
    <department>IT</department>
    <designation>QA Tester</designation>
    <salary>62000</salary>
    <hiredate>2022-03-17</hiredate>
    <projects>
      <project>Automation Scripts</project>
      <project>Bug Reporting</project>
    </projects>
  </employee>
  <employee id="E106">
    <name>Kunal Joshi</name>
    <department>IT</department>
    <designation>Software Engineer</designation>
    <salary>70000</salary>
    <hiredate>2023-09-12</hiredate>
    <projects>
      <project>Core Module</project>
    </projects>
  </employee>
  <employee id="E107">
    <name>Rahul Kapoor</name>
    <department>IT</department>
    <designation>Technical Lead</designation>
    <salary>85000</salary>
    <hiredate>2020-08-08</hiredate>
    <projects>
      <project>Team Management</project>
    </projects>
  </employee>
  <employee id="E108">
    <name>Amit Reddy</name>
    <department>IT</department>
    <designation>Database Administrator</designation>
    <salary>74000</salary>
    <hiredate>2021-04-25</hiredate>
    <projects>
      <project>Data Backup</project>
    </projects>
  </employee>
  <employee id="E109">
```

```xml
      <name>Nikhil Verma</name>
      <department>IT</department>
      <designation>Cloud Engineer</designation>
      <salary>78000</salary>
      <hiredate>2022-10-03</hiredate>
      <projects>
        <project>AWS Migration</project>
      </projects>
    </employee>
    <employee id="E110">
      <name>Rajesh Pawar</name>
      <department>IT</department>
      <designation>Data Analyst</designation>
      <salary>76000</salary>
      <hiredate>2023-02-14</hiredate>
      <projects>
        <project>Data Visualization</project>
      </projects>
    </employee>
    <employee id="E111">
      <name>Sandeep Chavan</name>
      <department>IT</department>
      <designation>AI/ML Engineer</designation>
      <salary>88000</salary>
      <hiredate>2021-07-30</hiredate>
      <projects>
        <project>Model Training</project>
      </projects>
    </employee>
    <employee id="E112">
      <name>Pranav Naik</name>
      <department>IT</department>
      <designation>Cybersecurity Specialist</designation>
      <salary>82000</salary>
      <hiredate>2022-05-05</hiredate>
      <projects>
        <project>Security Audit</project>
        <project>Penetration Testing</project>
      </projects>
    </employee>
  </employees>
```

## 2. Employees.dtd

```
<!ELEMENT employees (employee+)>
<!ELEMENT employee (name, department, designation, salary, hiredate,
projects)>
<!ATTLIST employee id ID #REQUIRED>
<!ELEMENT name (#PCDATA)>
<!ELEMENT department (#PCDATA)>
<!ELEMENT designation (#PCDATA)>
<!ELEMENT salary (#PCDATA)>
<!ELEMENT hiredate (#PCDATA)>
<!ELEMENT projects (project+)>
<!ELEMENT project (#PCDATA)>
```

## 3. Employees.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="employees">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="employee" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="name" type="xs:string"/>
              <xs:element name="department" type="xs:string"/>
              <xs:element name="designation" type="xs:string"/>
              <xs:element name="salary" type="xs:decimal"/>
              <xs:element name="hiredate" type="xs:date"/>
              <xs:element name="projects">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="project" type="xs:string"
maxOccurs="unbounded"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
            <xs:attribute name="id" type="xs:string" use="required"/>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

```
          </xs:schema>
```

## 4. Employees.xsl

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="html" encoding="UTF-8"/>

  <xsl:template match="/">
    <html>
      <head>
        <title>Employee Cards</title>
        <link rel="stylesheet" href="styles.css" />
      </head>
      <body>
        <h2>Infosys Employee Details</h2>
        <div class="cards-container">
          <xsl:for-each select="employees/employee">
            <xsl:variable name="index" select="position()"/>
            <xsl:variable name="class" select="concat('card', ($index mod
4) + 1)"/>
            <div>
              <xsl:attribute name="class">
                <xsl:value-of select="concat('card ', $class)"/>
              </xsl:attribute>
              <h2>
                <xsl:value-of select="$index"/>. <xsl:value-of
select="name"/>
              </h2>
              <p><span class="label">Position:</span> <xsl:value-of
select="designation"/></p>
              <p><span class="label">Department:</span> <xsl:value-of
select="department"/></p>
              <p><span class="label">Salary:</span> <xsl:value-of
select="salary"/></p>
              <p><span class="label">Hired On:</span> <xsl:value-of
select="hiredate"/></p>

              <div class="projects">
                <span class="label">Projects:</span>
                <xsl:for-each select="projects/project">
                  <div class="project">
                    <xsl:value-of select="."/>
                  </div>
```

```
            </xsl:for-each>
          </div>
        </div>
      </xsl:for-each>
    </div>
  </body>
</html>
    </xsl:template>
</xsl:stylesheet>
```

## 5. Styles.css

```css
body {
  font-family: Arial, sans-
serif;
  background-color: #f0f2f5;
  margin: 0;
  padding: 20px;
  text-align: center;
}

h2 {
  text-align: center;
  font-size: 30px;
}

.cards-container {
  display: flex;
  justify-content: center;
  flex-wrap: wrap;
  gap: 20px;
}

.card {
  border-radius: 10px;
  box-shadow: 0 4px 12px
rgba(0, 0, 0, 0.1);
  padding: 20px;
  width: 300px;
  text-align: left;
  transition: transform 0.3s;
}

.card:hover {
  transform: scale(1.03);
}

.card1 {
  background-color: #ffdddd;
}
```

```css
.card2 {
  background-color: #ddffdd;
}

.card3 {
  background-color: #ddeeff;
}

.card4 {
  background-color: #fff5cc;
}

.label {
  font-weight: bold;
}

.projects {
  margin-top: 10px;
}

.project {
  background-color: #f9f9f9;
  padding: 8px 10px;
  border-radius: 6px;
  margin-top: 5px;
  font-size: 14px;
}

a {
  color: #0066cc;
  text-decoration: none;
}

a:hover {
  text-decoration:
underline;
}
```

## 6. Output



**Infosys Employee Details**

### 1. Arjun Sharma
**Position:** Frontend Developer
**Department:** IT
**Salary:** 72000
**Hired On:** 2023-06-15
**Projects:**
- UI Redesign
- Landing Page

### 2. Ravi Kulkarni
**Position:** Backend Developer
**Department:** IT
**Salary:** 75000
**Hired On:** 2022-11-10
**Projects:**
- API Integration

### 3. Manoj Patil
**Position:** DevOps Engineer
**Department:** IT
**Salary:** 79000
**Hired On:** 2023-01-20
**Projects:**
- CI/CD Setup

### 4. Sachin Rane
**Position:** System Administrator
**Department:** IT
**Salary:** 68000
**Hired On:** 2021-12-05
**Projects:**
- Server Maintenance

### 5. Vivek Desai
**Position:** QA Tester
**Department:** IT
**Salary:** 62000
**Hired On:** 2022-03-17
**Projects:**
- Automation Scripts
- Bug Reporting

### 6. Kunal Joshi
**Position:** Software Engineer
**Department:** IT
**Salary:** 70000
**Hired On:** 2023-09-12
**Projects:**
- Core Module

### 7. Rahul Kapoor
**Position:** Technical Lead
**Department:** IT
**Salary:** 85000
**Hired On:** 2020-08-08
**Projects:**
- Team Management

### 8. Amit Reddy
**Position:** Database Administrator
**Department:** IT
**Salary:** 74000
**Hired On:** 2021-04-25
**Projects:**
- Data Backup

### 9. Nikhil Verma
**Position:** Cloud Engineer
**Department:** IT
**Salary:** 78000
**Hired On:** 2022-10-03
**Projects:**
- AWS Migration

### 10. Rajesh Pawar
**Position:** Data Analyst
**Department:** IT
**Salary:** 76000
**Hired On:** 2023-02-14
**Projects:**
- Data Visualization

### 11. Sandeep Chavan
**Position:** AI/ML Engineer
**Department:** IT
**Salary:** 88000
**Hired On:** 2021-07-30
**Projects:**
- Model Training

### 12. Pranav Naik
**Position:** Cybersecurity Specialist
**Department:** IT
**Salary:** 82000
**Hired On:** 2022-05-05
**Projects:**
- Security Audit
- Penetration Testing