



JEGYZŐKÖNYV

Adatkezelés XML környezetben

Féléves feladat

Készítette: Nagy László

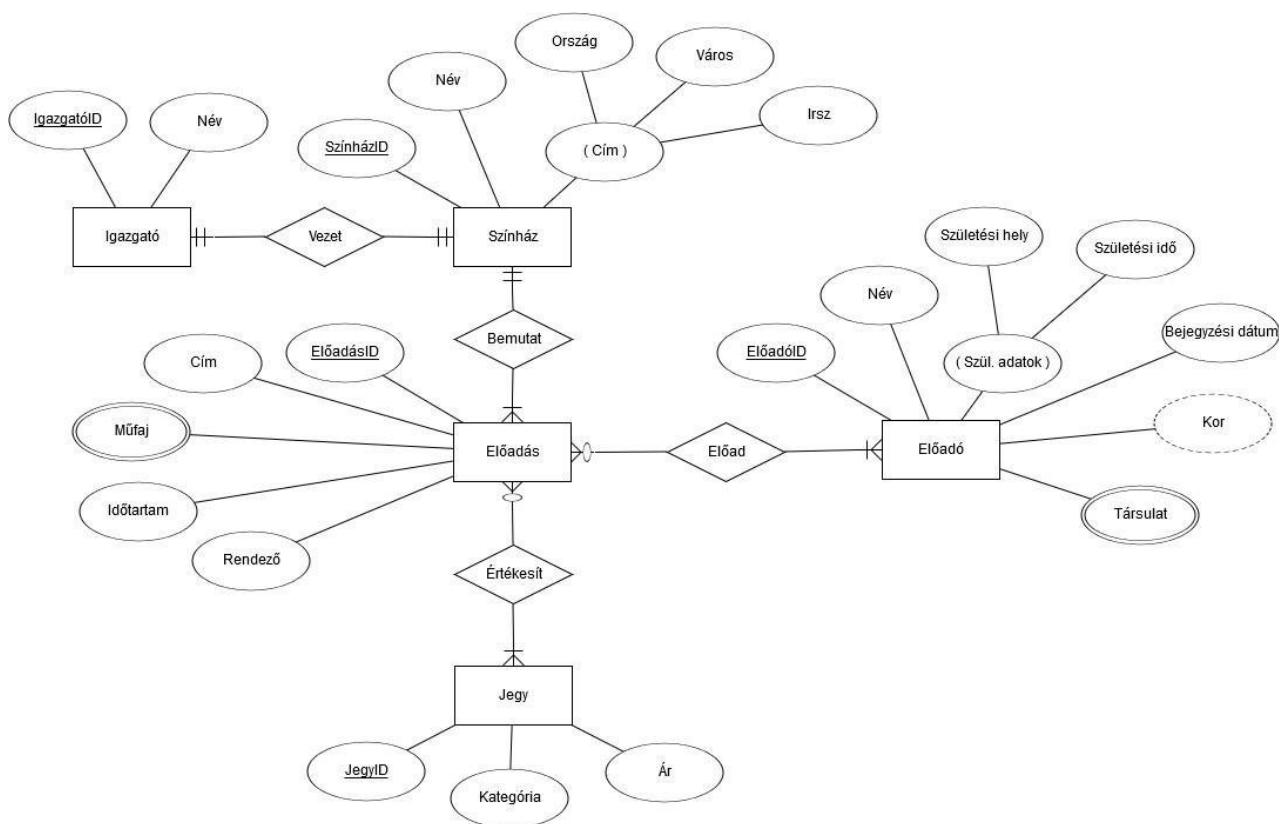
Neptunkód: LWI9Z1

A feladat leírása:

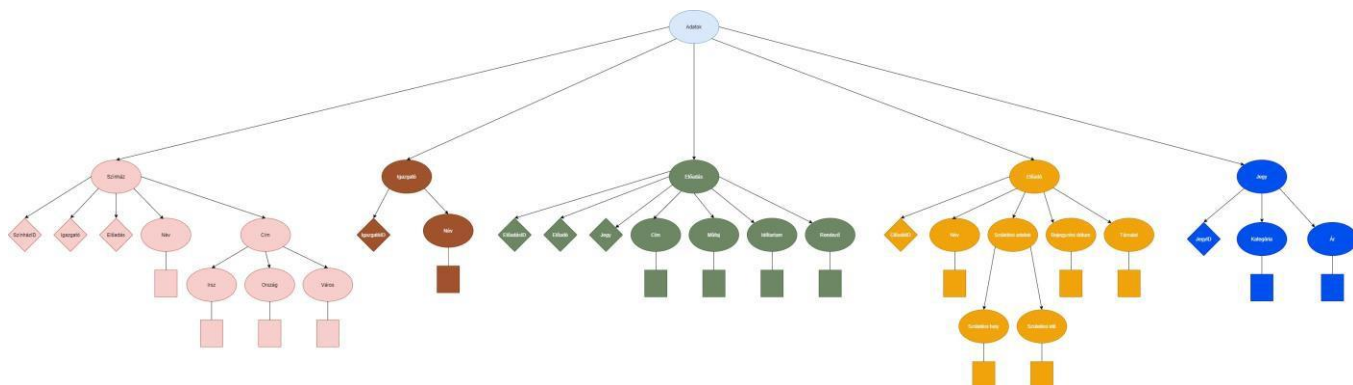
A beadandó témája egy olyan adatbázis, amely színházak kezelésére szolgál. Egy olyan adatbázist hozok létre, amiben a színház adatain kívül nyilván lesznek tartva a színház igazgatójának az adatai, a színház előadásai, valamint előadói és az előadásokra szóló jegyek. Tartalmazza azt is, hogy az egyes előadók melyik előadásokban szerepelnek, valamint minden előadáshoz tartozni fog egy, vagy akár több jegyfajta is.

1. feladat

1a) Az adatbázis ER modell:



1b) Az adatbázis konvertálása XDM modellre:



1c) Az XDM modell alapján XML dokumentum készítése:

```
<?xml version="1.0" encoding="UTF-8"?>
<data xmlns="data" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="XMLSchemaLWI9Z1.xsd">

  <theatre id="theatre1" principalid="principal1" showid="show1">
    <name>
      Miskolci Nemzeti Színház
    </name>
    <address>
      <zipcode>
        3525
      </zipcode>
      <country>
        Magyarország
      </country>
      <city>
        Miskolc
      </city>
    </address>
  </theatre>

  <principal id="principal1">
    <name>
      Béres Attila
    </name>
  </principal>

  <show id="show1" actorid="actor1" ticketid="ticket1">
    <title>
      Cirkuszhercegnő
    </title>
    <genre>
      operett
    </genre>
    <length>
      185 perc
    </length>
    <director>
      Szabó Máté
    </director>
  </show>

  <show id="show2" actorid="actor2" ticketid="ticket2">
    <title>
      A velencei kalmár
    </title>
    <genre>
      vígjáték
    </genre>
    <length>
      200 perc
    </length>
```

```
<director>
  Mohácsi János
</director>
</show>
<show id="show3" actorid="actor3" ticketid="ticket3">
  <title>
    Hegedűs a háztetőn
  </title>
  <genre>
    musical
  </genre>
  <length>
    185 perc
  </length>
  <director>
    Béres Attila
  </director>
</show>

<actor id="actor1">
  <name>
    Papp Endre
  </name>
  <datedata>
    <dateplace>
      Debrecen
    </dateplace>
    <datetime>
      1993-10-03
    </datetime>
  </datedata>
  <dramagroup>
    színművész
  </dramagroup>
</actor>
<actor id="actor2">
  <name>
    Rózsa Krisztián
  </name>
  <datedata>
    <dateplace>
      Vásárosnamény
    </dateplace>
    <datetime>
      1991-07-26
    </datetime>
  </datedata>
  <dramagroup>
    színművész
  </dramagroup>
</actor>
<actor id="actor3">
  <name>
```

```

        Prohászka Fanni
    </name>
    <datedata>
        <dateplace>
            Budapest
        </dateplace>
        <datetime>
            1993-07-23
        </datetime>
    </datedata>
    <dramagroup>
        színművésznő
    </dramagroup>
</actor>

<ticket id="ticket1">
    <category>
        A
    </category>
    <price>
        2400
    </price>
</ticket>
<ticket id="ticket2">
    <category>
        B
    </category>
    <price>
        2700
    </price>
</ticket>
<ticket id="ticket3">
    <category>
        C
    </category>
    <price>
        3000
    </price>
</ticket>
</data>

```

1d) Az XML dokumentum alapján XMLSchema készítése:

```

<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="data" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="data">
    <xs:complexType>
      <xs:choice maxOccurs="unbounded" minOccurs="0">
        <xs:element name="theatre">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element type="xs:string" name="name"/>
    <xs:element name="address">
      <xs:complexType>
        <xs:sequence>
          <xs:element type="xs:float" name="zipcode"/>
          <xs:element type="xs:string" name="country"/>
          <xs:element type="xs:string" name="city"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attribute type="xs:string" name="id"/>
  <xs:attribute type="xs:string" name="principalid"/>
  <xs:attribute type="xs:string" name="showid"/>
</xs:complexType>
</xs:element>
<xs:element name="principal">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="name"/>
    </xs:sequence>
    <xs:attribute type="xs:string" name="id"/>
  </xs:complexType>
</xs:element>
<xs:element name="show" maxOccurs="unbounded" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="title"/>
      <xs:element type="xs:string" name="genre"/>
      <xs:element type="xs:string" name="length"/>
      <xs:element type="xs:string" name="director"/>
    </xs:sequence>
    <xs:attribute type="xs:string" name="id" use="optional"/>
    <xs:attribute type="xs:string" name="actorid" use="optional"/>
    <xs:attribute type="xs:string" name="ticketid" use="optional"/>
  </xs:complexType>
</xs:element>
<xs:element name="actor">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="name"/>
      <xs:element name="datedata">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="dateplace"/>
            <xs:element type="xs:date" name="datetime"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:string" name="dramagroup"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:attribute type="xs:string" name="id" use="optional"/>
    </xs:complexType>
</xs:element>
<xs:element name="ticket" maxOccurs="unbounded" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element type="xs:string" name="category"/>
            <xs:element type="xs:float" name="price"/>
        </xs:sequence>
        <xs:attribute type="xs:string" name="id" use="optional"/>
    </xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>

```

2 feladat

A feladat egy DOM program készítése az XML dokumentum adatainak adminisztrálása alapján:

2a) adatolvasás

```
package hu.domparse.LWI9Z1;
```

```
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;
import org.xml.sax.SAXException;
```

```
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
import javax.xml.transform.TransformerException;
```

```
import java.io.File;
import java.io.IOException;
import java.util.Scanner;
```

```
public class DOMReadLWI9Z1 {
```

```
    public static void main(String[] args) throws ParserConfigurationException,
        IOException, SAXException, TransformerException {
```

```
        try {
```

```
            File xmlFile = new File("src/hu/domparse/LWI9Z1/XMLlwi9z1.xml");
```

```
            DocumentBuilderFactory factory =
```

```
DocumentBuilderFactory.newInstance();
```

```
            DocumentBuilder dBuilder = factory.newDocumentBuilder();
```

```
            Document doc = dBuilder.parse(xmlFile);
```

```

        doc.getDocumentElement().normalize();
        System.out.println("Nagy László LWI9Z1 XML fájla ves
feladat");
        Action(doc);
    } catch (ParserConfigurationException pce) {
        pce.printStackTrace();
    } catch (TransformerException tfe) {
        tfe.printStackTrace();
    } catch (IOException ioe) {
        ioe.printStackTrace();
    } catch (SAXException sae) {
        sae.printStackTrace();
    }
}

public static void Action(Document doc) throws TransformerException {
    System.out.println("\nOlvasni vagy módosítani szeretne?");
    System.out.println("1 - olvasás");
    System.out.println("2 - módosítás");
    int action = ReadCategory();

    switch (action) {
        case 1:
            Read(doc);
            break;
        case 2:
            Update(doc);
            break;
        default:
            Action(doc);
            break;
    }
}

//Kategória beolvasása
public static int ReadCategory() {
    Scanner scan = new Scanner(System.in);
    System.out.print("\nAdja meg a sorszámot:");
    int readCategory = scan.nextInt();
    return readCategory;
}

//Módosítani kívánt adat sorszámának bekérése
public static void Update(Document doc) throws TransformerException {
    System.out.println("\nXML Módosítás");
    System.out.println("Kérem adja meg mit szeretne módosítani");
    System.out.println("1 - száma\n2 - igazgatás\n3 - elöljáró\n4 -
elöljáró\n5 - jegy");
    int category = 0;
    category = ReadCategory();
    ShowElementUpdates(category, doc);
}

//Olvasni kívánt adatok sorszámának bekérése

```



```

public static void Read(Document doc) {
    System.out.println("\nXML Olvasás\n");
    System.out.println("Kérem adja meg mit szeretne olvasni");
    System.out.println("1 - színház\n2 - igazgatóság\n3 - előadás\n4 -
előadás - jegy");
    int category = 0;
    category = ReadCategory();
    ShowCategoryElements(category, doc);
}

```

```

public static void ShowCategoryElements(int category, Document doc) {
    switch (category) {
        case 1:
            ReadTheatre(doc);
            break;
        case 2:
            ReadPrincipal(doc);
            break;
        case 3:
            ReadShow(doc);
            break;
        case 4:
            ReadActor(doc);
            break;
        case 5:
            ReadTicket(doc);
            break;
        default:
            int newCategory = ReadCategory();
            ShowCategoryElements(newCategory, doc);
            break;
    }
}

```

```

public static void ShowElementUpdates(int category, Document doc) throws
TransformerException {
    switch (category) {
        case 1:
            DOMModifyLWI9Z1.UpdateTheatre(doc);
            break;
        case 2:
            DOMModifyLWI9Z1.UpdatePrincipal(doc);
            break;
        case 3:
            DOMModifyLWI9Z1.UpdateShow(doc);
            break;
        case 4:
            DOMModifyLWI9Z1.UpdateActor(doc);
            break;
        case 5:
            DOMModifyLWI9Z1.UpdateTicket(doc);
            break;
        default:
            int newCategory = ReadCategory();
            ShowElementUpdates(newCategory, doc);
    }
}

```

```

        break;
    }
}

public static void ReadTheatre(Document doc) {

    NodeList nList = doc.getElementsByTagName("theatre");

    for (int i = 0; i < nList.getLength(); i++) {

        Node nNode = nList.item(i);

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

            Element element = (Element) nNode;

            String theatreid = element.getAttribute("id");
            String principalid = element.getAttribute("principalid");
            String showid = element.getAttribute("showid");

            Node node1 =
element.getElementsByTagName("name").item(0);
            String name = node1.getTextContent();

            String zipcode = "";
            String country = "";
            String city = "";

            for (int j = 0; j < nList.getLength(); j++) {

                Node nnode1 =
element.getElementsByTagName("zipcode").item(0);
                Node cnode1 = null;
                country = cnode1.getTextContent();

                Node nnode2 =
element.getElementsByTagName("country").item(0);
                Node cnode2 = null;
                country = cnode2.getTextContent();

                Node cnode3 =
element.getElementsByTagName("city").item(0);
                city = cnode3.getTextContent();

            }

            System.out.println("SzÅ~nhÅ~z id:" + theatreid + "\tNev: " +
name + "\tIrsz: " + zipcode + "\tOrszÅ~g: " + country + "\tVÅ~ros: " + city);

        }

    }

}

public static void ReadPrincipal(Document doc) {

```

```

        NodeList nList = doc.getElementsByTagName("principal");

        for (int i = 0; i < nList.getLength(); i++) {

            Node nNode = nList.item(i);

            if (nNode.getNodeType() == Node.ELEMENT_NODE) {

                Element element = (Element) nNode;

                String principalid = element.getAttribute("id");

                Node node1 =
element.getElementsByTagName("name").item(0);
                String name = node1.getTextContent();

                System.out.println("İgazgatÄŒ id:" + principalid + "\tNev: " +
name);
            }
        }
    }

    public static void ReadShow(Document doc) {

        NodeList nList = doc.getElementsByTagName("show");

        for (int i = 0; i < nList.getLength(); i++) {

            Node nNode = nList.item(i);

            NodeList cList = nList.item(i).getChildNodes();

            if (nNode.getNodeType() == Node.ELEMENT_NODE) {

                Element element = (Element) nNode;

                String showid = element.getAttribute("id");

                Node node1 = element.getElementsByTagName("title").item(0);
                String title = node1.getTextContent();

                Node node2 =
element.getElementsByTagName("genre").item(0);
                String genre = node2.getTextContent();

                Node node3 =
element.getElementsByTagName("length").item(0);
                String length = node3.getTextContent();

                Node node4 =
element.getElementsByTagName("director").item(0);
                String director = node4.getTextContent();
            }
        }
    }
}

```

```

        System.out.println("El 'ad's id:\t" + showid + "\tCă-m:\t" +
title + "\tMăfaj:\t" + genre + "\tIdă tartam:\t" + length + "\tRendeză:\t" + director);
    }
}

public static void ReadActor(Document doc) {

    NodeList nList = doc.getElementsByTagName("actor");

    for (int i = 0; i < nList.getLength(); i++) {

        Node nNode = nList.item(i);

        NodeList cList = nList.item(i).getChildNodes();

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

            Element element = (Element) nNode;

            String actorid = element.getAttribute("id");

            Node node1 =
element.getElementsByTagName("name").item(0);
            String name = node1.getTextContent();

            Node node2 =
element.getElementsByTagName("dramagroup").item(0);
            String dramagroup = node2.getTextContent();

            String dateplace = "";
            String datetime = "";

            for (int j = 0; j < cList.getLength(); j++) {

                Node cnode1 =
element.getElementsByTagName("dateplace").item(0);
                dateplace = cnode1.getTextContent();

                Node cnode2 =
element.getElementsByTagName("datetime").item(0);
                datetime = cnode2.getTextContent();

            }

            System.out.println("El 'adă id:" + actorid + "\tNă©v: " + name
+ "\tTărsulat: " + dramagroup
+ "\tSzăletă©si hely: " + dateplace +
"\tSzăletă©si idă: " + datetime);
        }
    }

}

public static void ReadTicket(Document doc) {

```

```

        NodeList nList = doc.getElementsByTagName("ticket");

        for (int i = 0; i < nList.getLength(); i++) {

            Node nNode = nList.item(i);

            if (nNode.getNodeType() == Node.ELEMENT_NODE) {

                Element element = (Element) nNode;

                String ticketid = element.getAttribute("id");

                Node node1 =
element.getElementsByTagName("category").item(0);
                String category = node1.getTextContent();

                Node node2 = element.getElementsByTagName("price").item(0);
                String price = node2.getTextContent();

                System.out.println("Jegy id:" + ticketid + "\tKategória: " +
category + "\tÁr: " + price);
            }
        }
    }
}

```

2b) adatmódosítás

```

package hu.domparse.LWI9Z1;

import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

import java.io.File;
import java.util.Scanner;

import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;

public class DOMModifyLWI9Z1 {

    public static String ReadId() {
        Scanner sc = new Scanner(System.in);
        System.out.print("\nid:");
        String id = sc.nextLine();
        return id;
    }
}

```

```

    public static void CreateXML(Document doc) throws TransformerException {
        TransformerFactory transformerFactory = TransformerFactory.newInstance();
        Transformer transformer = transformerFactory.newTransformer();
        DOMSource source = new DOMSource(doc);
        StreamResult result = new StreamResult(new
File("src/hu/domparse/LWI9Z1/XMLlwi9z1.updated.xml"));
        transformer.transform(source, result);
    }

    //Bekérjük a módosítani kívánt színáz id-ját
    public static void UpdateTheatre(Document doc) throws TransformerException {

        System.out.println("\nMelyik színházat szeretnÄ© mÄłdosÄ-tani?\n");

        DOMReadLWI9Z1.ReadTheatre(doc);

        String id = ReadId();

        Scanner sc = new Scanner(System.in);
        System.out.print("SzÄ-nhÄ~z neve: ");
        String name = sc.nextLine();
        System.out.print("SzÄ-nhÄ~z irÄ~nyÄ-tÄłszÄ~ma: ");
        String zipcode = sc.nextLine();
        System.out.print("OrszÄ~ga: ");
        String country = sc.nextLine();
        System.out.print("VÄ~rosa: ");
        String city = sc.nextLine();

        UpdateTheatreById(doc, id, name, zipcode, country, city);
    }

    //Módosítjuk a kívánt színházat
    public static void UpdateTheatreById(Document doc, String id, String name, String
zipcode, String country, String city) throws TransformerException {

        NodeList nList = doc.getElementsByTagName("theatre");

        for (int i = 0; i < nList.getLength(); i++) {

            Node nNode = nList.item(i);

            if (nNode.getNodeType() == Node.ELEMENT_NODE) {

                Element element = (Element) nNode;

                String theatreid = element.getAttribute("id");

                if (theatreid.equals(id)) {

                    String principalid = element.getAttribute("principalid");
                    String showid = element.getAttribute("showid");

                    Node node1 =
element.getElementsByTagName("name").item(0);
                    node1.setTextContent(name);

```

```

        Node node2 =
element.getElementsByTagName("zipcode").item(0);
        node2.setTextContent(zipcode);

        Node node3 =
element.getElementsByTagName("country").item(0);
        node3.setTextContent(country);

        Node node4 =
element.getElementsByTagName("city").item(0);
        node4.setTextContent(city);

        System.out.println("Sz  nh  z ID:" + theatreid +
"\tIgazgat   ID:" + principalid + "\tEl  ad  s ID:"
+ showid + "\tN  v: " +
node1.getTextContent() + "\tIr  ny  -t  lsz  m: " + node2.getTextContent()
+ "\tOrsz  g: " + node3.getTextContent()
+ "\tV  ros:" + node4.getTextContent());

        System.out.println("\nSikeres m  ldos  -t  s
t  rt  nt!\n");

    }
}

CreateXML(doc);
}

public static void UpdatePrincipal(Document doc) throws TransformerException {

    System.out.println("\nMelyik igazgat  t szeretn   m  ldos  -tani?\n");

    DOMReadLWI9Z1.ReadPrincipal(doc);

    String id = ReadId();

    Scanner sc = new Scanner(System.in);
    System.out.print("N  v: ");
    String name = sc.nextLine();

    UpdatePrincipalById(doc, id, name);

}

public static void UpdatePrincipalById(Document doc, String id, String name) throws
TransformerException {

    NodeList nList = doc.getElementsByTagName("principal");

    for (int i = 0; i < nList.getLength(); i++) {

        Node nNode = nList.item(i);

```

```

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

            Element element = (Element) nNode;

            String principalid = element.getAttribute("id");

            if (principalid.equals(id)) {

                Node node1 =
element.getElementsByTagName("name").item(0);
                node1.setTextContent(name);

                System.out.println("Igazgat   ID:" + principalid +
"\t   v: " + node1.getTextContent());

                System.out.println("\nSikeres m  dos  -t  s
t  rt  nt!\n");

            }
        }

        CreateXML(doc);
    }

    public static void UpdateShow(Document doc) throws TransformerException {

        System.out.println("\nMelyik el  ad  st szeretn   m  dos  -tani?\n");

        DOMReadLWI9Z1.ReadShow(doc);

        String id = ReadId();

        Scanner sc = new Scanner(System.in);
        System.out.print("C  m: ");
        String title = sc.nextLine();
        System.out.print("M  faj: ");
        String genre = sc.nextLine();
        System.out.print("Id  tartam: ");
        String length = sc.nextLine();
        System.out.print("Rendez  : ");
        String director = sc.nextLine();

        UpdateShowById(doc, id, title, genre, length, director);

    }

    public static void UpdateShowById(Document doc, String id, String title, String genre,
String length, String director) throws TransformerException {

        NodeList nList = doc.getElementsByTagName("show");

        for (int i = 0; i < nList.getLength(); i++) {

            Node nNode = nList.item(i);

```



```

        NodeList cList = nList.item(i).getChildNodes();

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

            Element element = (Element) nNode;

            String showid = element.getAttribute("id");

            if (showid.equals(id)) {

                Node node1 =
element.getElementsByTagName("title").item(0);
                node1.setTextContent(title);

                Node node2 =
element.getElementsByTagName("genre").item(0);
                node2.setTextContent(genre);

                Node node3 =
element.getElementsByTagName("length").item(0);
                node3.setTextContent(length);

                Node node4 =
element.getElementsByTagName("director").item(0);
                node4.setTextContent(director);

                System.out.println("El 'ad's ID: " + id + "\tC-m: " +
node1.getTextContent() + "\tM±faj: " + node2.getTextContent()
                                + "\tId'tartam: " +
node3.getTextContent() + "\tRendez': " + node4.getTextContent());

                System.out.println("\nSikeres m±dos-t's
t¶rt©nt!\n");

            }
        }

        CreateXML(doc);
    }

    public static void UpdateActor(Document doc) throws TransformerException {

        System.out.println("\nMelyik el 'ad't szeretn© m±dos-tani?\n");

        DOMReadLWI9Z1.ReadActor(doc);

        String id = ReadId();

        Scanner sc = new Scanner(System.in);
        System.out.print("N©v: ");
        String name = sc.nextLine();
        System.out.print("Sz¶let©si hely: ");
        String dateplace = sc.nextLine();

```

```

System.out.print("Sz let si id : ");
String datetime = sc.nextLine();
System.out.print("T rsulat: ");
String dramagroup = sc.nextLine();

```

```

UpdateActorById(doc, id, name, dateplace, datetime, dramagroup);

```

```

}

```

```

public static void UpdateActorById(Document doc, String id, String name, String
dateplace, String datetime, String dramagroup) throws TransformerException {

```

```

    NodeList nList = doc.getElementsByTagName("actor");

```

```

    for (int i = 0; i < nList.getLength(); i++) {

```

```

        Node nNode = nList.item(i);

```

```

        NodeList cList = nList.item(i).getChildNodes();

```

```

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

```

```

            Element element = (Element) nNode;

```

```

            String actorid = element.getAttribute("id");

```

```

            if (actorid.equals(id)) {

```

```

                Node node1 =
element.getElementsByTagName("name").item(0);
                node1.setTextContent(name);

```

```

                Node node2 =
element.getElementsByTagName("dramagroup").item(0);
                node2.setTextContent(dramagroup);

```

```

                for (int j = 0; j < cList.getLength(); j++) {

```

```

                    Node cnode1 =
element.getElementsByTagName("dateplace").item(0);
                    cnode1.setTextContent(dateplace);

```

```

                    Node cnode2 =
element.getElementsByTagName("datetime").item(0);
                    cnode2.setTextContent(datetime);

```

```

                }

```

```

                System.out.println("El ad  ID:" + id + "\tN v: " +
node1.getTextContent() + "\tT rsulat: " + node2.getTextContent()
                + "\tSz let si adatok: " + dateplace +
"." + datetime);

```

```

                System.out.println("\nSikeres m dos t s

t rt nt!\n");

```

```

    }
}

CreateXML(doc);
}

```

```

public static void UpdateTicket(Document doc) throws TransformerException {

```

```

    System.out.println("\nMelyik jegyet szeretn   m  ldos  -tani?\n");

```

```

    DOMReadLWI9Z1.ReadTicket(doc);

```

```

    String id = ReadId();

```

```

    Scanner sc = new Scanner(System.in);

```

```

    System.out.print("Kateg  ria: ");

```

```

    String category = sc.nextLine();

```

```

    System.out.print("  r: ");

```

```

    String price = sc.nextLine();

```

```

    UpdateTicketById(doc, id, category, price);

```

```

}

```

```

    public static void UpdateTicketById(Document doc, String id, String category, String
price) throws TransformerException {

```

```

    NodeList nList = doc.getElementsByTagName("ticket");

```

```

    for (int i = 0; i < nList.getLength(); i++) {

```

```

        Node nNode = nList.item(i);

```

```

        if (nNode.getNodeType() == Node.ELEMENT_NODE) {

```

```

            Element element = (Element) nNode;

```

```

            String ticketid = element.getAttribute("id");

```

```

            if (ticketid.equals(id)) {

```

```

                Node node1 =
element.getElementsByTagName("category").item(0);
                node1.setTextContent(category);

```

```

                Node node2 =
element.getElementsByTagName("price").item(0);
                node2.setTextContent(price);

```

```

                System.out.println("Ticket ID:" + ticketid +
"\tKateg  ria: " + node1.getTextContent() + "\t  r: " + node2.getTextContent());

```

```

        System.out.println("\nSikeres mÅldosÅ-tÅ's
tÅ¶rtÅ©nt!\n");
    }
}
CreateXML(doc);
}
}

```