using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Data;

using System.Data.OleDb;

using System.IO;

using System.Collections;

using System.Xml;

using System.Xml.Schema;

namespace ConsoleApplication33

{

class Program

{

static void Main(string[] args)

{

int op;

string connectionString;

connectionString = "Provider=Microsoft.ACE.OLEDB.12.0;Data Source=Botiga1.accdb;Persist Security Info=False;";

OleDbConnection connexio = new OleDbConnection(connectionString);

OleDbCommand cmd = new OleDbCommand();

cmd.Connection = connexio;

connexio.Open();

do

{

Console.WriteLine("1. Ver stocks");

Console.WriteLine("2. Insertar en Stock");

Console.WriteLine("3. Modificar preu de producte");

Console.WriteLine("4. Modificar quantitat de producte");

Console.WriteLine("5. Esborrar Producte");

Console.WriteLine("6. Generar XML");

Console.WriteLine("7. Expediciones");

Console.WriteLine("8. Adquirir XML");

Console.WriteLine("99. Salir");

op = Convert.ToInt32(Console.ReadLine());

OleDbDataAdapter da = new OleDbDataAdapter("Select id, Model, Marca, Descripció, Preu, QTA from Botiga", connexio);

DataSet ds = new DataSet();

da.Fill(ds);

switch (op)

{

case 1: // Mostrar pantalla la BD

for (int fila = 0; fila < ds.Tables[0].Rows.Count; fila++)

{

Console.WriteLine("|---------------------------------------------------------------------|");

Console.WriteLine("| ID | MODEL | MARCA | DESCRIPCIÓ | PREU | QTA |");

Console.WriteLine("|---------------------------------------------------------------------|");

Console.Write("|{0,6}", ds.Tables[0].Rows[fila][1].ToString());

Console.Write("|{0,15}", ds.Tables[0].Rows[fila][2].ToString());

Console.Write("|{0,13}", ds.Tables[0].Rows[fila][3].ToString());

Console.Write("|{0,18}", ds.Tables[0].Rows[fila][4].ToString());

Console.Write("|{0,8}", ds.Tables[0].Rows[fila][5].ToString());

Console.Write("|{0,6}|", ds.Tables[0].Rows[fila][6].ToString());

Console.Write("\n|-----------------------------------------------------------------------|\n");

}

break;

case 2:

int id, preu, QTA;

string model, marca, descripcio;

Console.WriteLine("Entra id: ");

id = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Entra model: ");

model = Console.ReadLine();

Console.WriteLine("Entra marca: ");

marca = Console.ReadLine();

Console.WriteLine("Entra descripció: ");

descripcio = Console.ReadLine();

Console.WriteLine("Entra preu: ");

preu = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Entra QTA: ");

QTA = Convert.ToInt32(Console.ReadLine());

cmd.CommandText = "INSERT INTO Stock VALUES (" + id + " , " + model + " , " + marca + " , " + descripcio + " , " + preu + " , " + QTA + ");";

cmd.ExecuteNonQuery();

break;

case 3:

Console.WriteLine("Entra el preu: ");

preu = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Entra la id del producte que vols modificar: ");

id = Convert.ToInt32(Console.ReadLine());

cmd.CommandText = "UPDATE Stock SET Preu = " + preu + " WHERE Id = " + id;

cmd.ExecuteNonQuery();

break;

case 4:

Console.WriteLine("Introdueix la Id del producte que vols modificar");

id = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Entra la nova QTA: ");

QTA = Convert.ToInt32(Console.ReadLine());

cmd.CommandText = "UPDATE Stock SET QTA = " + QTA + " WHERE Id\_producte = " + id;

cmd.ExecuteNonQuery();

break;

case 5:

Console.WriteLine("Introdueix la id del producte que vols modificar: ");

id = Convert.ToInt32(Console.ReadLine());

cmd.CommandText = "DELETE FROM Stock WHERE Id\_producte = " + id;

cmd.ExecuteNonQuery();

break;

case 6:

Console.WriteLine("Realitzant comanda ");

string nomArxiu = "Comanda\_" + DateTime.Now.Year + "\_" + DateTime.Now.Month + "\_" + DateTime.Now.Day + "\_.xml";

StreamWriter sw = new StreamWriter(nomArxiu);

sw.WriteLine("<?xml version=\"1.0\" encoding=\"UTF-8\"?>");

sw.WriteLine("<?xml-stylesheet type= \"text/xsl\" href= \"XSLTFile1.xslt\"?>");

sw.WriteLine("<Comanda>");

for (int fila = 0; fila < ds.Tables[0].Rows.Count; fila++)

{

sw.WriteLine("\t<producte>");

sw.WriteLine("\t\t<id>" + ds.Tables[0].Rows[fila][1].ToString() + "</id>");

sw.WriteLine("\t\t<model" + ds.Tables[0].Rows[fila][2].ToString() + "</model>");

sw.WriteLine("\t\t<marca>" + ds.Tables[0].Rows[fila][3].ToString() + "</marca>");

sw.WriteLine("\t\t<descripcio>" + ds.Tables[0].Rows[fila][4].ToString() + "</descripcio>");

sw.WriteLine("\t\t<preu>" + ds.Tables[0].Rows[fila][5].ToString() + "</preu>");

sw.WriteLine("\t\t<QTA>" + ds.Tables[0].Rows[fila][6].ToString() + "</QTA>");

sw.WriteLine("\t<producte>");

}

sw.WriteLine("</Comanda>");

sw.Close();

break;

case 7:

Console.WriteLine("Generar comanda:");

nomArxiu = "Comanda 2.0\_" + DateTime.Now.Year + "\_" + DateTime.Now.Month + "\_" + DateTime.Now.Day + "\_.xml";

StreamWriter sw1 = new StreamWriter(nomArxiu);

sw1.WriteLine("<?xml version=\"1.0\" encoding=\"UTF-8\"?>");

sw1.WriteLine("<?xml-stylesheet type= \"text/xsl\" href= \"XSLTFile1.xslt\"?>");

sw1.WriteLine("<Comanda>");

Console.WriteLine("Inserta id: ");

id = Convert.ToInt32(Console.ReadLine());

while (id != -1)

{

Console.WriteLine("Inserta la quantitat: ");

QTA = Convert.ToInt32(Console.ReadLine());

int i = 0;

while (i < ds.Tables[0].Rows.Count && id != Convert.ToInt32(ds.Tables[0].Rows[i][0].ToString())) i++;

if (i == ds.Tables[0].Rows.Count) Console.WriteLine("Codi existent: " + id);

else

{

sw1.WriteLine("\t<producte>");

sw1.WriteLine("\t\t<id>" + ds.Tables[0].Rows[i][0].ToString() + "</id>");

sw1.WriteLine("\t\t<model" + ds.Tables[0].Rows[i][1].ToString() + "</model>");

sw1.WriteLine("\t\t<marca>" + ds.Tables[0].Rows[i][2].ToString() + "</marca>");

sw1.WriteLine("\t\t<descripcio>" + ds.Tables[0].Rows[i][3].ToString() + "</descripcio>");

sw1.WriteLine("\t\t<preu>" + ds.Tables[0].Rows[i][4].ToString() + "</preu>");

sw1.WriteLine("\t\t<QTA>" + ds.Tables[0].Rows[i][5].ToString() + "</QTA>");

sw1.WriteLine("\t</producte>");

i++;

cmd.CommandText = "UPDATE Stock SET Quantitat = Quantitat - " + QTA + " WHERE Id\_producte = " + id;

cmd.ExecuteNonQuery();

}

Console.WriteLine("Inserta id: ");

id = Convert.ToInt32(Console.ReadLine());

}

sw1.WriteLine("</Comanda>");

sw1.Close();

break;

case 8:

XmlDocument doc = new XmlDocument();

doc.Load("Albara.xml");

XmlNodeList mainData = doc.GetElementsByTagName("Albara");

XmlNodeList albaran = ((XmlElement)mainData[0]).GetElementsByTagName("Producte");

XmlNodeList idXML, qXML;

foreach (XmlElement producte in albaran)

{

idXML = producte.GetElementsByTagName("Id Producte");

qXML = producte.GetElementsByTagName("Quantitat");

id = Convert.ToInt32(idXML[0].InnerText);

QTA = Convert.ToInt32(qXML[0].InnerText);

cmd.CommandText = "UPDATE Stock SET Quantitat = Quantitat + " + QTA + "WHERE Id\_producte =" + id;

cmd.ExecuteNonQuery();

}

break;

}

} while (op != 99);

connexio.Close();

}

}

}

**EXPLICACIO ERP:** Es tracta d’una botiga d’esports on hi han uns certs productes, en els que puc veure els stocks de tots els productes, modificar el preu del productes, modificar la quantitat dels productes, esborrar-los, generar un XML dels productes, expedidicions i adquirir l’XML creat anteriorment.