

```

using System;

using System.Data;

using System.Collections.Generic;

using System.Web.UI;

using System.Web.UI.WebControls;

using Oracle.DataAccess.Client;


namespace WebApplication3
{
    public partial class Reports : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                GridView1.Visible = false;

                GridView2.Visible = false;
            }
        }


        // =====
        // SEARCH BUTTON
        // =====

        protected void Search_book(object sender, EventArgs e)
        {
            string report = Book_report.Text.Trim();

            if (report == "Inventory List")
                LoadInventory();

            else if (report == "In/Out Register")
                LoadInOutRegister();
        }
    }
}

```

```

else if (report == "Book yet to be returned")
    LoadPendingBooks();
else if (report == "Lost Book List")
    LoadLostBooks();
else
    ScriptManager.RegisterClientScriptBlock(
        this, GetType(), "msg",
        "alert('Please select valid report')", true);
}

// =====
// INVENTORY
// =====
private void LoadInventory()
{
    GridView1.Visible = false;
    GridView2.Visible = true;

    string query =
        "SELECT BOOKID, SUBJECT, AUTHOR, PUBLISHER, STATUS " +
        "FROM BOOK_MASTER ORDER BY SUBJECT";

    LoadData(query, null, GridView2);
}

// =====
// IN / OUT REGISTER
// =====
private void LoadInOutRegister()
{
    GridView1.Visible = true;

```

```
GridView2.Visible = false;
```

```
DateTime? fromDate = ParseDate(from_date.Text);
```

```
DateTime? toDate = ParseDate(to_date.Text);
```

```
string query =
```

```
    "SELECT b.BOOKID, b.SUBJECT, i.IT_DATE AS ISSUE_DATE, " +  
    "u.FULLNAME, r.RT_DATE AS RETURN_DATE " +  
    "FROM ISSUE_BOOKS i " +  
    "JOIN ISSUE_BOOKS r ON i.T_ID = r.T_ID " +  
    "JOIN BOOK_MASTER b ON b.BOOKID = i.BOOK_ID " +  
    "JOIN HASH_USER u ON u.EMPLOYEEID = i.USER_ID " +  
    "WHERE i.ACTIVITY='Issue' AND r.ACTIVITY='Returned'";
```

```
List<OracleParameter> p = new List<OracleParameter>();
```

```
if (fromDate.HasValue)
```

```
{  
    query += " AND i.IT_DATE >= :fromDate";  
    p.Add(new OracleParameter(":fromDate", fromDate.Value));  
}
```

```
if (toDate.HasValue)
```

```
{  
    query += " AND i.IT_DATE <= :toDate";  
    p.Add(new OracleParameter(":toDate", toDate.Value));  
}
```

```
query += " ORDER BY b.SUBJECT";
```

```
LoadData(query, p.ToArray(), GridView1);
```

```
}
```

```
// =====
```

```
// PENDING BOOKS
```

```
// =====
```

```
private void LoadPendingBooks()
```

```
{
```

```
    GridView1.Visible = true;
```

```
    GridView2.Visible = false;
```

```
    string query =
```

```
        "SELECT i.BOOK_ID AS BOOKID, b.SUBJECT, i.IT_DATE AS ISSUE_DATE, " +
```

```
        "u.FULLNAME, 'Not Returned Yet' AS RETURN_DATE " +
```

```
        "FROM ISSUE_BOOKS i " +
```

```
        "JOIN BOOK_MASTER b ON b.BOOKID=i.BOOK_ID " +
```

```
        "JOIN HASH_USER u ON u.EMPLOYEEID=i.USER_ID " +
```

```
        "WHERE i.AVAILABILITY=1 " +
```

```
        "ORDER BY b.SUBJECT";
```

```
    LoadData(query, null, GridView1);
```

```
}
```

```
// =====
```

```
// LOST BOOKS
```

```
// =====
```

```
private void LoadLostBooks()
```

```
{
```

```
    GridView1.Visible = true;
```

```
    GridView2.Visible = false;
```

```
    string query =
```

```

"SELECT b.BOOKID, b.SUBJECT, i.IT_DATE AS ISSUE_DATE, " +
"u.FULLNAME, 'Lost' AS RETURN_DATE " +
"FROM BOOK_MASTER b " +
"LEFT JOIN ISSUE_BOOKS i ON i.BOOK_ID = b.BOOKID " +
"LEFT JOIN HASH_USER u ON u.EMPLOYEEID = i.USER_ID " +
"WHERE b.STATUS = 'Lost' " +
"ORDER BY b.SUBJECT";

```

```

LoadData(query, null, GridView1);
}

```

```

// =====
// COMMON DATA METHOD
// =====

```

```

private void LoadData(string query, OracleParameter[] parameters, GridView grid)
{
    DbConnection db = new DbConnection();
    OracleCommand cmd = null;
    OracleDataAdapter da = null;
    DataTable dt = new DataTable();

    try
    {
        cmd = new OracleCommand(query, db.GetConnection());

        if (parameters != null)
            cmd.Parameters.AddRange(parameters);

        da = new OracleDataAdapter(cmd);
        da.Fill(dt);
    }
}

```

```

        grid.DataSource = dt;

        grid.DataBind();
    }
    catch (Exception ex)
    {
        Response.Write(ex.Message);
    }
    finally
    {
        db.CloseConnection();
    }
}

// =====
// DATE PARSER
// =====
private DateTime? ParseDate(string text)
{
    DateTime dt;
    if (DateTime.TryParse(text, out dt))
        return dt;
    return null;
}
}
}

```