

```
using System;
using System.Data;
using Caissa.Classes;

namespace Caissa.Persistence
{
    public class AssessmentItemDB
    {
        public int assessment_item_id
        {
            get;
            set;
        }

        public int assessment_item_test_id
        {
            get;
            set;
        }

        public int assessment_item_tool_id
        {
            get;
            set;
        }

        #region Insert Assessment Item
        public void Insert(AssessmentItem item)
        {
            string storedprocedure = "sp_InsertAssessmentItem";

            System.Data.IDbConnection connection;
            System.Data.IDbCommand command;

            connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

            command = Mapped.Command(storedprocedure, connection);
            command.CommandType = CommandType.StoredProcedure;
            command.Parameters.Add(Mapped.Parameter("p_as_i_initials",
                item.Initials, DbType.String, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_title", item.Title,
                DbType.String, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_description",
                item.Description, DbType.String, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_expected_result",
                item.ExpectedResult, DbType.String, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_procedure",
                item.Procedure, DbType.String, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_div_dm", item.DivDM,
                DbType.Double, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_div_pp", item.DivPP,
                DbType.Double, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_as_i_cov_loc", item.CovLoc,
                DbType.Double, ParameterDirection.Input));
            command.Parameters.Add(Mapped.Parameter("p_sou_id", item.Source,
                DbType.Int32, ParameterDirection.Input));
        }
    }
}
```

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command.Parameters.Add(Mapped.Parameter("p_asi_id", "", DbType.Int32,
    ParameterDirection.Output));
command.ExecuteNonQuery();

int id = 0;

foreach (var parameter in command.Parameters)
{
    IDbDataParameter p = (IDbDataParameter)parameter;
    if (p.Direction == ParameterDirection.Output)
        if (p.ParameterName == "p_asi_id")
            id = Convert.ToInt32(p.Value);
}

connection.Close();

assessment_item_id = 0;
}
#endregion

#region Update Assessment Item
public void Update(AssessmentItem item)
{
    string storedprocedure = "sp_UpdateAssessmentItem";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_asi_id", item.Id,
        DbType.Int32, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_initials",
        item.Initials, DbType.String, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_title", item.Title,
        DbType.String, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_description",
        item.Description, DbType.String, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_expected_result",
        item.ExpectedResult, DbType.String, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_procedure",
        item.Procedure, DbType.String, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_div_dm", item.DivDM,
        DbType.Double, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_div_pp", item.DivPP,
        DbType.Double, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_asi_cov_loc", item.CovLoc,
        DbType.Double, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_sou_id", item.Source,
        DbType.Int32, ParameterDirection.Input));
    command.ExecuteNonQuery();

    connection.Close();
}
```

```
#endregion

#region Delete Assessment Item
public void Delete(int item_id)
{
    string storedprocedure = "sp_DeleteAssessmentItem";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_asid", item_id,
        DbType.Int32, ParameterDirection.Input));
    command.ExecuteNonQuery();

    connection.Close();
}
#endregion

#region Select Assessment Item
public DataSet Select()
{
    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;
    System.Data.IDataAdapter adapter;

    DataSet ds = new DataSet();

    string sql = string.Empty;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    sql = "select asi.asi_id, asi.asi_initials, asi.asi_title,
        asi.asi_description, asi.asi_expected_result,"
        + " asi.asi_procedure, FORMAT(asi.asi_div_dm,3) as asi_div_dm,"
        + " FORMAT(asi.asi_div_pp,3) as asi_div_pp,"
        + " FORMAT(asi.asi_cov_loc,3) as asi_cov_loc, sou.sou_id,
        sou.sou_title"
        + " from tbl_assessment_item as asi"
        + " inner join tbl_source as sou on (asi.sou_id = sou.sou_id)"
        + " where asi.asi_active = 0"
        + " and asi.asi_id not in ("
        + "     select ait.asi_id from tbl_assessment_item_test ait"
        + "     where ait.ait_active = 0"
        + " );";

    command = Mapped.Command(sql, connection);

    adapter = Mapped.Adapter(command);
    adapter.Fill(ds);

    connection.Close();
}
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        return ds;
    }
#endregion

#region Bind To Tool
private void BindToTool(int item_id, int tool_id)
{
    string storedprocedure = "sp_BindAssessmentItemToTool";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_asid", item_id, DbType.Int32, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_toolid", tool_id, DbType.Int32, ParameterDirection.Input));
    command.ExecuteNonQuery();

    int id = 0;

    foreach (var parameter in command.Parameters)
    {
        IDbDataParameter p = (IDbDataParameter)parameter;
        if (p.Direction == ParameterDirection.Output)
            if (p.ParameterName == "p_ito_id")
                id = Convert.ToInt32(p.Value);
    }

    connection.Close();

    assessment_item_tool_id = id;
}
#endregion

#region Bind To Test
public void BindToTest(int item_id, int test_id)
{
    string storedprocedure = "sp_BindAssessmentItemToTest";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_asid", item_id, DbType.Int32, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_testid", test_id, DbType.Int32, ParameterDirection.Input));
    command.Parameters.Add(Mapped.Parameter("p_ait_id", "", DbType.Int32, ParameterDirection.Output));
}
```

```
command.ExecuteNonQuery();

int id = 0;

foreach (var parameter in command.Parameters)
{
    IDbDataParameter p = (IDbDataParameter)parameter;
    if (p.Direction == ParameterDirection.Output)
        if (p.ParameterName == "p_ait_id")
            id = Convert.ToInt32(p.Value);
}

connection.Close();

assessment_item_test_id = id;
}
#endregion

#region Unbind From Test
public void UnbindFromTest(int assessment_item_test_id)
{
    string storedprocedure = "sp_UnbindAssessmentItemFromTest";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_ait_id",
        assessment_item_test_id, DbType.Int32, ParameterDirection.Input));
    command.ExecuteNonQuery();

    connection.Close();
}
#endregion

#region Unbind From Tool
public void UnbindFromTool(int assessment_item_tool_id)
{
    string storedprocedure = "sp_UnbindAssessmentItemFromTool";

    System.Data.IDbConnection connection;
    System.Data.IDbCommand command;

    connection = Mapped.Connection(Mapped.conexao.ServerExplorer);

    command = Mapped.Command(storedprocedure, connection);
    command.CommandType = CommandType.StoredProcedure;
    command.Parameters.Add(Mapped.Parameter("p_ito_id",
        assessment_item_tool_id, DbType.Int32, ParameterDirection.Input));
    command.ExecuteNonQuery();

    connection.Close();
}
```

```
#endregion

public AssessmentItemDB()
{
    //
    // TODO: Add constructor logic here
    //
}
}
```