

Firebird Embedded C# Code Example

5-Dec-2019

```
//-----
static public bool boAddRecord(string stDbPathFilename,
                              string stUserID,
                              string stPassword,
                              string stTableName,
                              string stFieldNamesWithoutKeyIDNameCommaDelimited,
                              string stFieldKeyIDName, //KeyIDName is the last field
                              List<string> liststFieldValuesWithoutKeyIDValue,
                              out string stKeyIDValue)
{
    bool boErrorFlag = false;
    stKeyIDValue = "";
    string stConn = new FbConnectionStringBuilder {
        Database = stDbPathFilename,
        UserID = stUserID,
        Password = stPassword,
        ServerType = FbServerType.Embedded,
        ClientLibrary = @"(path)\fbclient.dll"
    }.ToString();
    try {
        using (FbConnection fbConn = new FbConnection(stConn)) {
            fbConn.Open();
            string stPlaceHoldersCommaDelimited = "@p0";
            for (int iii = 1; iii < liststFieldValuesWithoutKeyIDValue.Count; iii++)
                stPlaceHoldersCommaDelimited += ", @p" + (iii).ToString();
            FbTransaction fbTransaction = fbConn.BeginTransaction();
            string stCmd = "INSERT INTO " + stTableName +
                " ( " + stFieldNamesWithoutKeyIDNameCommaDelimited + " ) " +
                " VALUES ( " + stPlaceHoldersCommaDelimited + " ) " +
                " RETURNING " + stFieldKeyIDName;
            using (FbCommand fbCmd = new FbCommand(stCmd, fbConn, fbTransaction)) {
                for (int iii = 0; iii < liststFieldValuesWithoutKeyIDValue.Count; iii++) {
                    string stPlaceholder = "@p" + (iii).ToString();
                    string stValue = liststFieldValuesWithoutKeyIDValue[iii];
                    fbCmd.Parameters.AddWithValue(stPlaceholder, stValue);
                }
                fbCmd.Parameters.Add(new FbParameter() { Direction = System.Data.ParameterDirection.Output });
                fbCmd.ExecuteNonQuery();
                fbTransaction.Commit();
                //Retrieve KeyIDValue
                int iKeyIDLocation = liststFieldValuesWithoutKeyIDValue.Count;
                stKeyIDValue = fbCmd.Parameters[iKeyIDLocation].Value.ToString();
            } //using
            fbConn.Close();
        } //using
    } //try
    catch (Exception ex) {
        boErrorFlag = true;
        MessageBox.Show(ex.Message);
    }
}
```

```
    return boErrorFlag;  
} //boAddRecord  
//-----
```