Dynamic SQL query with parameters in c#

Asked 3 years, 5 months ago   Active 3 years, 5 months ago   Viewed 3k times

i want to build the dynamic query where column name and table name are paramaters.

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following is the code i have written

```
string query = "DECLARE @sqlQuery varchar(max); " +
                        " SELECT @sqlQuery = 'select distinct [@columnName] from
[" + Globals.REPORTING_SCHEMA + "].[@tableName]'; " +
                        " exec(@sqlQuery);";

List<SqlParameter> parametersList = new List<SqlParameter>();

SqlParameter param = new SqlParameter();

param.ParameterName = "tableName";

param.SqlDbType = System.Data.SqlDbType.VarChar;

param.Value = request.TableName;

parametersList.Add(param);

param = new SqlParameter();

param.ParameterName = "columnName";

param.SqlDbType = System.Data.SqlDbType.VarChar;

param.Value = request.ColumnName;

parametersList.Add(param);

SQLHelpher sqlHelper = new SQLHelpher(networkConnectionString);

SqlDataReader dataReader = sqlHelper.ExecuteReader(query,
```

```csharp
public SqlDataReader ExecuteReader(string sql, List<SqlParameter> parametersList = null)
    {
        SqlConnection conn = new SqlConnection();

        conn.ConnectionString = this._connectionString;

        conn.Open();

        SqlCommand cmd = new SqlCommand();

        cmd.Connection = conn;

        cmd.CommandText = sql;

        cmd.CommandType = CommandType.Text;

        if (parametersList != null)
        {
            foreach (SqlParameter p in parametersList)
            {
                cmd.Parameters.Add(p);
            }
        }

        SqlDataReader reader = cmd.ExecuteReader(CommandBehavior.CloseConnection);

        return reader;
    }
```

this gives me following error "Invalid object name 'reporting.@tableName" it seems that parameter values are not being replaced while executing the command. what i am missing here ?

Thanks, Amol

c#   sql   ado.net   sqldatareader

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asked Apr 7 '16 at 8:57

amol

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You just need to tweak your SQLQuery string slightly as your paramaters are a part of the string in SQLs eyes.

Change it to this and it should work

```
string query = "DECLARE @sqlQuery varchar(max); " +
                       " SELECT @sqlQuery = 'select distinct [' + @columnName +
'] from [" + Globals.REPORTING_SCHEMA + "].[' + @tableName + ']'; " +
                       " exec(@sqlQuery);";
```

answered Apr 7 '16 at 9:09

Richard Boyce
378   5   12

Magic !! thanks a lot Richard. – amol Apr 7 '16 at 9:16

No problem amol – Richard Boyce Apr 7 '16 at 9:22

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