RDB

# General Rules

1. **COPY** **PASTE** **IS** **FORBIDDEN**
2. **Factory**: will be checked out by one person and **overridden by others**
3. **RDB** **Project**: should be added and referenced from **web and runtime** then checked in directly and **NOT checked out** for a long time
4. **Ongoing** **Changes**: Only **if a new data manager** is added, we need to make sure it is **also** added to RDB
5. **References**: When creating a new RDB project, add the references that are **only needed**
6. **Bugs**: **Keep the same logic** try not to update it unless you get confirmation, if bug is found in SQL data manager take confirmation before **solving it first in SQL then in RDB**

# Steps to GO

1. **Factory**: after overriding this file, **put RDB as first option and SQL as second**
2. **LastModifiedTime:** add last modified time to table and make sure to give it default value = getdate(). When any update on the table make sure to change LastModifiedTime = getdate()
3. **Tool**: Use the tool to generate code, make sure to run it **each day at least once**
4. **Alias**: Add TABLE\_ALIAS as a static string next to TABLE\_NAME
5. **Regions**: Group the RDB code in a region and after implementing the interface of DATA project also make them in another region. Region for mappers and private methods is good also
6. **Data Provider:** override Get Data Provider method and make sure to give it the module name Project\_ModuleName, ex: TOneWhS\_BE
7. **Methods**: start implementing methods as per the notes in Methods section
8. **Mappers**: change the reader as per the notes in mapper section
9. **Test**: test **smartly** and check in your code only after testing it very well
10. **Partitioning**: in case of portioning make sure to set “CachePartitionColumnName” in RDBTableDefinition
11. **LastModifiedTime and CreatedTime must not be added to insert or update RDB query.**

# Methods

1. **Old Manager**: Open the SQL manager and make sure to **copy the same logic** (ex: Trimming)
2. **Procedure**: Open stored procedure and make sure **it is doing the same logic** exactly. AND / OR, Transactions, IF ELSE are an example.
3. **Insert Methods**: **if ID is auto generated**, use CodeGroupManager insert as an reference
4. **Null Handling**:
   * 1. In the queries that have null fields to insert, add an if and do not write the statement
     2. When you want to update the value in DB with null, use .Null() instead of .Value()
     3. When you have serialized object or nullable property:
        1. Insert Case: only check for null and not required to use .Null().
        2. Update Case: Check for null and update using .Null().
5. **ConditionIfColumnNotNull:**
   * 1. Used if you have IsNull(Column,DefaultValue) in SP.
6. **Use AllTableColumns while retrieving all data.**
7. **For SP of multiple operations in same table or different tables use same query context, but each operation must be implemented in its datamanager.**
8. **If you have CASE WHEN in sp use CaseExpression in select RDB.**

# Mappers

1. **Get X**: for ALLOW NULLs **NOT** **Checked** in DB
2. **Get Nullable X**: for ALLOW NULLs **Checked** in DB
3. **Get With Null Handling**: do not use it unless the case is a nullable Boolean in DB that means false
4. **Other**: If the case was different than 1,2,3 please inform
5. **Deserialize Object**: Use Deserialize directly without handling null object.