

HFNY Publish Process

Day 1 (usually Thursday during our publish meeting):

1. Merge Staging into master (C#). This can either be done through a pull request or through your local GitHub merge. This should be done before everything else so that master is always up-to-date with last week's changes.
2. Go to Trello and review the cards in the Tested/Ready for Publish column. Make sure to check with everyone in the publish meeting to make sure that the list looks correct.
 - a. The cards should have pull requests attached and have the proper tags (Pull Request C#, Pull Request SQL).
3. Using the list of items from Trello, go to GitHub's website and merge the necessary pull requests (C# and SQL).
 - a. Make sure to check with everyone in the meeting to make sure that the pull requests are there and look correct.
 - b. Create any pull requests that are missing.
4. Go to your local GitHub application and pull the changes to the SQL and C# repositories.
 - a. For C#, pull down the Staging branch.
 - b. For SQL, pull down the master branch.
5. Go to your local SSMS and apply the SQL changes to your local HFNY database.
 - a. Make sure that SQL Source Control shows that there are no changes to push.
6. Go to your local Visual Studio instance and prepare for the publish.
 - a. Check to make sure the GitHub branch name in Visual Studio is Staging.
 - b. Check to make sure that the Connection.t4 file is pointing at your local HFNY database.
 - c. Save the Generator.tt file so that any table changes are reflected in the code and the auto-generated stored procedures.
7. Publish the code to the staging slots.
 - a. In Visual Studio, publish to all 5 staging slots.
 - b. You should have publish profiles for HFNYMIS-Staging, MIHVOL-Staging, HVOnline-Staging, Nebraska-Staging, and OregonHV-Staging.
8. Use SQL Compare to check the schema of your local HFNY database against the live HFNY database.

- a. Check with everyone in the meeting to make sure that the list of differences looks correct.
 - b. Create a deployment script from the changes and open it in SSMS.
 - c. Keep it open in SSMS for the next day.
9. Use SQL Data Compare to check the data in your static tables of your local HFNY database against the live HFNY database.
 - a. Check with everyone in the meeting to make sure that the list of differences looks correct.
 - b. Create a deployment script from the changes and open it in SSMS.
 - c. Keep it open in SSMS for the next day.
10. Check to see if there are any conversion scripts for the publish. You should find any conversion scripts attached to the Trello cards.
 - a. If there are any conversion scripts, open them in SSMS for the next day.
11. Set up the publish shutdown for the next day.
 - a. Connect to all the live site SQL databases by using a server group and open a new query. See the wiki article for setting up a server group if you haven't done it already.
 - b. In the query window, add a row to the PublishShutdown table that has a start datetime of the next day at 7:50 AM and an end datetime of the next day at 8:30 AM.
 - i. The times can be changed, but you should always try to complete the publish in the early morning.
12. Add news for the publish to the live sites.
 - a. Connect to all the live site SQL databases by using a server group and open a new query.
 - b. In the query window, add a row to the NewsEntry table with a date for the next day.
 - c. Add rows to the NewsEntryItem table that describe the changes that are going to be on the live site the next day.

Day 2 (usually the Friday after the publish meeting):

1. Go to the Microsoft Azure web portal and swap the live sites.
 - a. Swap the staging slot and the primary slot for all the live sites.
 - b. You should do this for all 5 sites (HFNY, MIHVOL, HVOnline, Nebraska, and Oregon).
 - c. NOTE: You can swap multiple sites at the same time by opening multiple Azure web portal tabs.

2. Go to SSMS and make all the SQL changes.
 - a. Connect to all the live site SQL databases by using a server group and open a new query.
 - b. Copy the schema deployment script that you created using SQL Compare yesterday and paste it into the new query window. Run the query to update the schema for all the live site databases.
 - c. Clear the new query window so that no SQL is left.
 - d. Copy the data deployment script that you created using SQL Data Compare yesterday and paste it into the new query window. Run the query to update the static data for all the live site databases.
3. Run any conversion scripts.
 - a. Connect to all the live site SQL databases by using a server group and open a new query window.
 - b. If there are any conversion scripts, copy them into the new query window and run them to update all the live site databases.
4. Verify the changes.
 - a. By this point all the live sites should be swapped and the SQL databases updated.
 - b. Make sure that all 5 live sites have a build date of the previous day.
 - c. If possible, test a few of the changes that were made during the publish to make sure they look correct.
5. End the publish shutdown.
 - a. Connect to all the live site SQL databases by using a server group and open a new query window.
 - b. In the new query window, get the PK for the most recent PublishShutdown row.
 - c. Use that PK to update the PublishShutdown table and set the end datetime to the same date and time as now.

Tips and Tricks:

1. Keep an eye on the time while swapping and making the SQL changes. You may need to extend the PublishShutdown by changing the end datetime to later in the day.