Tree of Life Data Export from Colleague

As evaluated 1/23/2020 by Konrad Willmert, including pending changes for Military & Doctorate divisions

1. Build Staging tables (data moves from Colleague Live to staging tables on WarehouseDB.exports to allow for intermediate troubleshooting)
	1. Read filters from Colleague XTEP screen
		* 1. Exclude Instructional Methods
		1. Read filters from Colleague XTRP screen
			1. Translate IWU term prefix to TOL suffix
			2. Term filter, course filter, section filter
			3. Exclude Auditing students from enrollment y/n
		2. Read filters from Colleague XTNP screen
			1. Exclude Auditing students from enrollment y/n
			2. Elective term type criteria
			3. Excluded Programs
			4. Term filter, course filter, section filter
	2. Run database query scripts to populate staging tables
		1. Student Programs table
			1. Load active student-programs and statuses
			2. Apply all filters from above
		2. Course Sections table
			1. Load sections from past year thru current, accounting for crosslisting, applying instr method filters
			2. compute term name
			3. compute TOL term type
			4. compute delete flag
			5. compute campus
			6. apply all filters
		3. Student Sections table
			1. Load active student acad creds
			2. Combine with **Student Programs above**
			3. Combine with **Course Sections above**
			4. compute audit filter
			5. compute delete flag
		4. Faculty table
			1. Load active faculty from **Course Sections above**
		5. Students table
			1. Load students from **Student Programs and Student Sections above**
			2. Compute res vs nonres
			3. Exclude APS.VEND, APS.PFD
			4. Remove dupe addresses
			5. Filter out students with no unfiltered programs
			6. compute Res filter based on student types list and program is not CAS.UNC
		6. Student Rooms table
			1. Load active room assignments
			2. Combine with **Students, Student Sections, and Course Sections above**
		7. Address Info table
			1. Load address info for all **Students above**
			2. Filter out IWU Marion (res) students based on previously computed filter flag
2. Run main scripts for IWU Marion Campus (data moves from staging tables to CSV files)
	1. iwu\_course.csv
		1. Compute division using **Course Sections and Student Sections Staging**
		2. Ensure every course is also part of the Military and Doctorate divisions, even if no qualifying students are in it
		3. Compute new Campus value (traditional, special divisions, Nonres elective, or Nonres Core
		4. Compute new TOL term value (IWDR, IWML, IWUNR, etc)
		5. Compute TOL term suffix using Campus and term type
		6. Apply Campus and previously computed Term Course Section filter
	2. iwu\_customer.csv
		1. Load **Students Staging**
		2. Combine with **Student Sections, Course Sections, and Student Rooms Staging**
		3. Apply previously computed Term Course Section filter and Program filter
		4. Compute alias based on Campus
		5. Compute comment text based on Compus and Res student type filter (Opt out / ID)
		6. Compute address, city, state, zip, each based on Campus and student type of ASGRC
		7. Apply program filter from Students Staging
		8. Include all Res students or any student with an active room assignment
		9. Combine with all faculty from **Course Sections and Faculty Staging**
		10. Filter on Campus and apply Term course section filter
	3. iwu\_section.csv
		1. Load **Course Sections and Student Sections Staging**
		2. Combine with **PERMIL.STATUSES in Colleague Live**
		3. Compute and select all necessary division and course section combinations
		4. Apply program filter
		5. Compute TOL campus/division value
		6. Compute TOL term name and suffix
		7. Compute TOL section name
		8. Compute enrollment capacity
		9. Compute actual enrollment (must be accurate per division)
		10. Compute comment text using section start-end dates
		11. Apply Campus and Term Course Section filters
	4. iwu\_enrollment.csv
		1. Load **Student Sections, Course Sections Staging**
		2. Combine with **PERMIL\_STATUSES in Colleague Live**
		3. Compute TOL campus/division value
		4. Compute TOL section name
		5. Apply Campus, Term Course Section, Program, and student auditing filters
3. Transform IWU Marion data
	1. Remove a sorting-only field
	2. Remove ship\_country
	3. Reorder and add any missing fields
	4. Remove quotes from b\_delete column that can't have them
4. **Run step 3 again, main scripts, for N&G (move data from staging tables to CSV files)**
	1. **Same queries as IWU Marion but with different Campus value, "NonRes%"**
5. Transform N&G data
	1. Reorder and add any missing fields
	2. Remove quotes from b\_delete column that can't have them
6. Check for problems
	1. Make sure there are no large chunks of data missing
	2. Make sure correct # of files are written
7. Upload files to res site
8. Upload files to nonres site