

Job Sheet - Database Queries for River Monitor

Use these queries to check the rivermongroup and rivermonlocation tables.

Use Snoopy or use psql in a terminal window to run the queries you wish to run.

Get help from your ITO if you need assistance.

Use the Config menu in River Monitor to make changes to ordinals or to which group a location belongs to.

The 2 tables are :

rivermongroup: group_id, group_name, ordinal, hsa

rivermonlocation: lid, group_id, ordinal

There are multiple queries to try and group data together in a meaningful way to assist you in deciding how to organize your groups and the locations within each group.

- The **group** with the lowest ordinal will display first under each HSA
 - For locations, use the ordinals to display the upstream points first, working downstream with higher ordinals
 - For the DEF_XXX group, use the ordinals to display locations alphabetically by lid
 - If you repeat ordinals within a group, you may get inconsistent results
 - **Remember** that a point **outside your HSA** assigned to a river group and having the lowest ordinal (as the upstream point) will cause that **group** to be assigned to the **other HSA**, even if all other points are in **your HSA** - make sure you and the staff are aware of this
 - One option is to leave that point out of the river group, and let it fall to the DEF_XXX group for that upstream HSA. Just make sure the staff knows!
1. Select all the data from the rivermongroup table by hsa.
 - a. select * from rivermongroup order by hsa, ordinal;
 - b. select * from rivermongroup order by hsa, group_id;
 - c. select * from rivermongroup where hsa='EAX' order by group_id;
 - d. select * from rivermongroup where hsa='EAX' order by ordinal;

Use these queries as a guide to assign ordinals to groups as makes sense for your HSA, using Config > Group Definitions option in River Monitor.

2. Select all the data from rivermonlocation table by group_id (e.g., "RiverGroup")
 - a. select * from rivermonlocation order by group_id, ordinal;
 - b. select * from rivermonlocation where group_id='RiverGroup' order by group_id, ordinal;

(continued below...)

3. Select all data from both tables where group_id is the same
 - a. `select rivermonlocation.lid, rivermonlocation.group_id,
rivermonlocation.ordinal, rivermongroup.group_id, rivermongroup.hsa from
rivermonlocation, rivermongroup
where rivermongroup.hsa='EAX' and
rivermonlocation.group_id=rivermongroup.group_id
order by rivermonlocation.group_id, rivermonlocation.ordinal;`
4. Select all data from rivermonlocation for a specific default group (DEF_XXX)
 - a. `select rivermonlocation.lid, rivermonlocation.group_id,
rivermonlocation.ordinal, rivermongroup.group_id, rivermongroup.hsa from
rivermonlocation, rivermongroup
where rivermongroup.hsa='EAX' and
rivermonlocation.group_id=rivermongroup.group_id
and rivermongroup_id='DEF_EAX'
order by rivermonlocation.lid, rivermonlocation.ordinal;`

Use these queries as a guide to assign ordinals to locations alphabetically according to lid for the DEF_EAX group, using the Config > Locations Grouping / Ordering option in River Monitor.

One last suggestion: Since the HSA for an upstream location can be confusing (if the group belongs to an upstream HSA for a river mostly in your HSA, for example), you should include the HSA as a column to display so there is NO QUESTION as to who “owns” the location.