Subject: Renaming column
Posted by slprakash on Mon, 22 Jul 2024 12:48:19 GMT
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I have loaded data from SQL Database. I want to rename multiple columns without manually renaming. Is there a way to automate the renaming process if I have a mapping document (which will have new name and old name in the format <old name> as <new name>)

Subject: Re: Renaming column
Posted by thomas on Mon, 22 Jul 2024 15:15:33 GMT
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Columns cannot be renamed, because the original column name is used in many places to refer to a column. You can add an alias, though. This causes to display the alias instead of the original column name.

Currently, you cannot set column alias defined by a mapping file. But maybe you can do one of these as a workaround:
- define target column names in the SQL statement as: SELECT user_id ID, user_name Name FROM ...
- run a macro (dwam) or apply a template (dwat) to define aliases for you dwar document

Subject: Re: Renaming column
Posted by yuan on Mon, 12 Aug 2024 02:17:37 GMT
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Hi slprakash,

I used the following SQL script to Query my SQL database and renamed some columns in it. You can modify it to fit your purpose. Besides, you can use complex SQL query to join data from different tables. Hope it can give you some help.

<macro name="QuerySQLDB">
<task name="runSQLQuery">
connect=mysql://your_database/your_query_table (e.g. mysql://sql.xxxx.com/chemicaldb)
sql=SELECT<NL> smiles,<NL> CONCAT(structure_ID) AS ID,<NL> CONCAT(weight) AS MW,<NL> CONCAT(mass,' ',mass_unit) AS mass,<NL>
</task>
<task name="selectWindow">
viewName=Custom SQL Result
</task>
<task name="closeView">
viewName=2D View
</task>
<task name="closeView">

viewName=3D View
</task>
<task name="closeView">
viewName=Structure of smiles
</task>
<task name="addCalculatedValues">
columnName=ParentID
isOverwrite=false
formula=substring(ID,1,15)
</task>
<task name="sortRows">
column=ParentID
selectedFirst=false
descending=true
</task>
</macro>

comments:
1) Save it as a .dwam file and then use "Macro-->Import Macro-->Run Macro" to run the script file.

2) CONCAT(structure_ID) AS ID ---- will rename structure_ID column in your database as ID in DataWorrior

3) CONCAT(weight) AS MW ---- will rename weight column in your database as MW in DataWorrior

4) CONCAT(mass,' ',mass_unit) AS mass ---- will merge mass and mass_unit in your database as mass in DataWorrior

5) <task name="addCalculatedValues">
columnName=ParentID
isOverwrite=false
formula=substring(ID,1,15)
</task>
---- will add calculated values (ParentID column in DataWorrior) from ID column

6) <task name="sortRows">
column=ParentID
selectedFirst=false
descending=true
</task>
---- will sort table by previously calculated ParentID

Subject: Re: Renaming column

Posted by slprakash on Thu, 22 Aug 2024 11:07:18 GMT
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Thanks for the prompt response !