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Subject: How to customize Merge Equivalent Rows  
Posted by [yuan](#) on Thu, 23 May 2024 04:44:03 GMT  
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Hi Thomas,

Datawarrior is a very useful open-source cheminformatics tools. Thanks for sharing it.

We wanted to use it organize experiment data by merging different assay results. When we used merge equivalent rows, we found that except for selected column(s) for equivalent check, other columns with the same values were also merged as a single value. Can we keep them individual or modify this function to let user determine whether merging equivalent values?

Many thanks!

Yuan

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### File Attachments

1) [merge equivalent rows 1.png](#), downloaded 436 times

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Merge Equivalent Rows

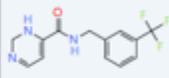
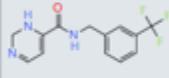
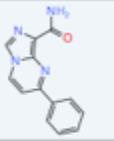
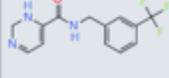
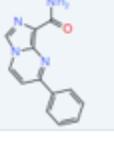
Select column(s) to consider for equivalent rows  
(use <CTRL> for multiple selection)

- ID
- Structure of Structure
- Structure
- MS Assay
- Species
- T1/2(min)
- Experiment Date

Case sensitive

Merge all rows

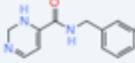
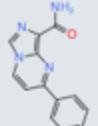
Cancel

Table							
	ID	Structure of Structure	Structure	MS Assay	Species	T1/2(min)	Experiment Date
1	cmpd001		<chem>O=C(C1=CC=NCN1)NCc1cccc(C(F)(F)F)c1</chem>	MS	mouse	584.74	2024/1/24
2	cmpd001		<chem>O=C(C1=CC=NCN1)NCc1cccc(C(F)(F)F)c1</chem>	MS	dog	427.44	2024/1/24
3	cmpd002		<chem>NC(c(ncn1cc2ccccc12)nc1ccccc1)=O</chem>	MS	mouse	484.35	2024/1/24
4	cmpd001		<chem>O=C(C1=CC=NCN1)NCc1cccc(C(F)(F)F)c1</chem>	MS	monkey	153.73	2024/1/24
5	cmpd002		<chem>NC(c(ncn1cc2ccccc12)nc1ccccc1)=O</chem>	MS	dog	484.35	2024/2/24

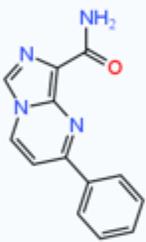
Current merge equivalent rows

What we want

2) [merge equivalent rows 2.png](#), downloaded 415 times

Table							
ID	Structure of Structure	Structure	MS Assay	Species	T1/2(min)	Experiment Date	
1		<chem>O=C(C1=CC=CC=C1)NC(=O)N1CCc1ccccc1C(F)(F)F</chem>	MS	mouse dog monkey	584.74	2024/1/24	
					427.44		
					153.73		
2		<chem>NC(=O)c1nc2c(c1)ccc(O)c2</chem>	MS	mouse dog	484.35	2024/1/24	
						2024/2/24	

MS

<b>ID:</b> cmpd002	<b>Structure of Structure:</b>		
			
<b>MS Assay:</b> MS	<b>Species:</b> mouse dog	<b>T1/2(min):</b> 484.35	<b>Experiment Date:</b> 2024/1/24 2024/2/24

2 of 2

What we wanted

- 3) [test data.xlsx](#), downloaded 417 times
- 4) [Test-keep individual.dwar](#), downloaded 431 times

Subject: Re: How to customize Merge Equivalent Rows

Posted by [thomas](#) on Thu, 23 May 2024 20:12:50 GMT

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Hi Yuan,

thanks you for the hint. Of course, your suggestion makes a lot of sense. I have update the source code now to offer three options:

- 'remove duplicates', which is similar to the current handling: if the cells to be merged all contain the same value,  
then this value is placed into the merged cell only once. Otherwise we see all entries in original order
- 'keep duplicates', which is your suggested handling: we always see all entries in original order
- 'depend on columns groups', which assumes that related columns, e.g. result columns of one assay, are grouped using  
the column grouping feature. Then it checks, whether all cells of the same column group are equal and only then it  
removes for all these columns the same entry.

In the next version this will go live...

Thomas

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Subject: Re: How to customize Merge Equivalent Rows

Posted by [yuan](#) on Fri, 24 May 2024 05:11:29 GMT

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Hi Thomas,

Thanks for your quickly reply! I'm glad to hear that my suggestion was helpful. The updates you've made to the source code sound fantastic, and I'm sure they'll improve the user experience. Offering three different options for handling duplicates will give users more control and flexibility when merging cells.

Great job on implementing these changes!

By the way, can we take a look at the updated version?

Yuan

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Subject: Re: How to customize Merge Equivalent Rows

Posted by [thomas](#) on Fri, 24 May 2024 13:50:10 GMT

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I prepared a test file for you. You can download it from [https://openmolecules.org/datawarrior/datawarrior\\_v06.02.02a\\_lpha.jar](https://openmolecules.org/datawarrior/datawarrior_v06.02.02a_lpha.jar) Then copy it into your datawarrior update folder. On Windows this is C:\ProgramData\DataWarrior\

The standard procedure to test any non-yet-released functionality would be:

On a Linux or MacOS computer with JDK21/JFX (I suggest Liberica full JDK 21) installed clone the DataWarrior project from Github and build the jar file:

```
> git clone https://github.com/thsa/datawarrior
> buildDataWarrior
```

Then rename the built 'datawarrior\_all.jar' file to any version newer than the current one, e.g. 'datawarrior\_v06.02.02.jar' and put it into your datawarrior update folder, where the other automatic updates are located. This works on any platform (Linux, Mac, or Windows). If you then launch DataWarrior, it will use this version. Don't forget to remove the file after testing it.

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Subject: Re: How to customize Merge Equivalent Rows

Posted by [yuan](#) on Tue, 28 May 2024 01:40:52 GMT

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Hi Thomas,

Thank you for your reply. I downloaded the updated .jar file and tested it. Really fantastic! I believe more users will benefit from it.

Yuan

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#### File Attachments

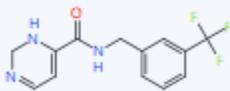
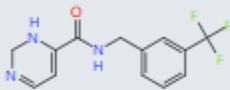
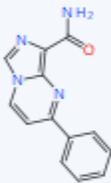
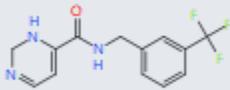
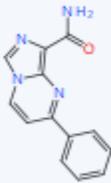
1) [Merge\\_results.png](#), downloaded 370 times

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Test.dwar

File Edit Data Chemistry Database List Macro Help

Table

		ID	Structure of Structure	Structure	MS Assay	Species	T1/2(min)	Experimen Date
1		cmpd001		<chem>O=C(C1=CC=</chem>	MS	mouse	584.74	2024/1/24
2		cmpd001		<chem>O=C(C1=CC=</chem>	MS	dog	427.44	2024/1/24
3		cmpd002		<chem>NC(c(ncn1cc2</chem>	MS	mouse	484.35	2024/1/24
4		cmpd001		<chem>O=C(C1=CC=</chem>	MS	monkey	153.73	2024/1/24
5		cmpd002		<chem>NC(c(ncn1cc2</chem>	MS	dog	484.35	2024/2/24

Subject: Re: How to customize Merge Equivalent Rows

Posted by [thomas](#) on Tue, 11 Jun 2024 12:25:56 GMT

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Hi Yuan, your example image is a perfect illustration for this feature. May I use it for the manual?

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