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**MEMORANDUM**

**TO:** Sarah Roberts, EPA

**FROM:** Allison DenBleyker, ERG

**DATE:** October 2, 2019 (revised October 8, 2020)

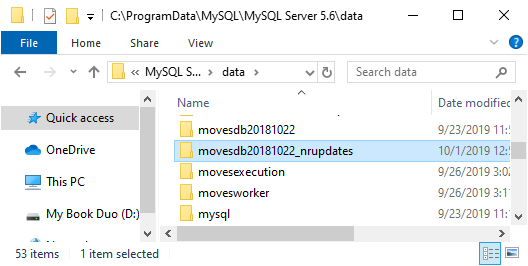
**SUBJECT:** Nonroad Instructions: Updated MOVES Database

The nonroad sector of the 2016v1 platform used a modified MOVES default database built from the publicly released version movesdb20181022. This document provides instructions on how to create the updated database and configure MOVES to use it for a run or set of runs. These instructions require access to three data table files named below.

1. nrbaseyearequippopulation\_2016v1.csv
2. nrstatesurrogate\_2016v1.csv
3. nrsurrogate\_2016v1.csv

First, create a copy of the MOVES database *movesdb20181022* inside your MySQL data directory. Rename it to something meaningful to you that keeps the original release date; the example uses the new name *movesdb20181022\_nrupdates*.

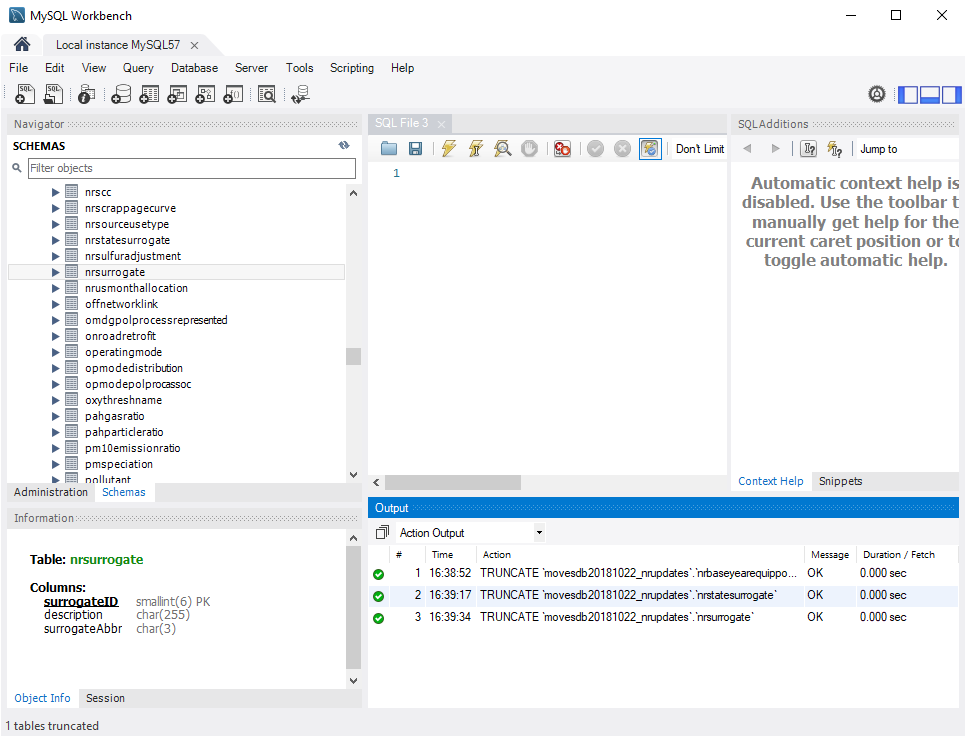
**Step 1.** Make a copy of the MOVES database and rename the copy.



**Step 2.** Truncate three tables in the new database: nrbaseyearequippopulation, nrstatesurrogate, and nrsurrogate. Navigate to the first table name, nrbaseyearequippopulation, Right click it, and select Truncate. Click Truncate again to confirm. Do the same with the other two tables.

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If your truncations were successful, you should see confirming messages in the output section of Workbench.



**Step 3.** Upload new data into nrbaseyearequippopulation, nrstatesurrogate, and nrsurrogate tables by copying and pasting the following three queries below into Workbench.

**Note:** replace “C:\\files\\” with your file path to your CSV file, using double backslashes. Once pasted into Workbench, you can execute the queries using the lightning icon.

load data infile 'C:\\files\\nrbaseyearequippopulation\_2016v1.csv'

into table movesdb20181022\_nrupdates.nrbaseyearequippopulation

fields terminated by ','

enclosed by '"'

lines terminated by '\n'

ignore 1 rows;

load data infile 'C:\\files\\nrstatesurrogate\_2016v1.csv'

into table movesdb20181022\_nrupdates.nrstatesurrogate

fields terminated by ','

enclosed by '"'

lines terminated by '\n'

ignore 1 rows;

load data infile 'C:\\files\\nrsurrogate\_2016v1.csv'

into table movesdb20181022\_nrupdates.nrsurrogate

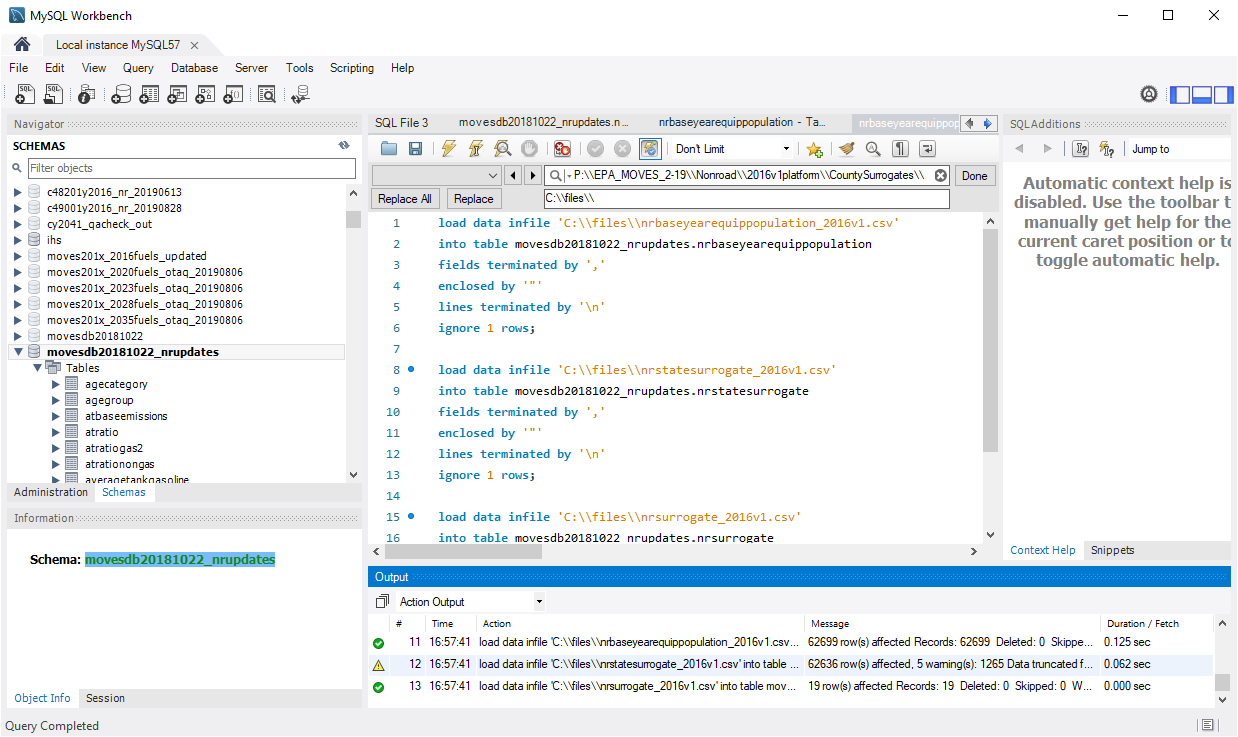
fields terminated by ','

enclosed by '"'

lines terminated by '\n'

ignore 1 rows;

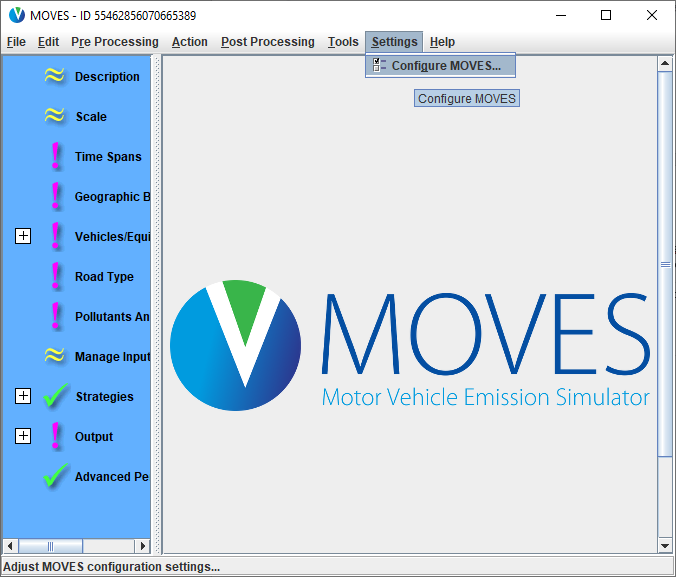
If successful, you should see confirming messages in the output section of Workbench. Note the warning icon below for the nrstatesurrogate import.



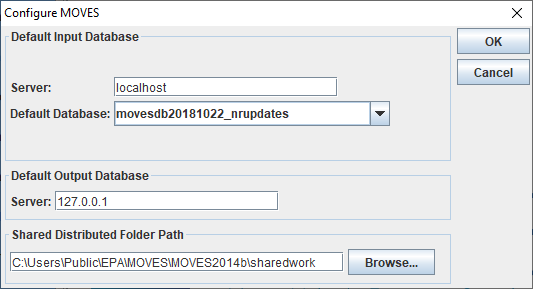
There were warnings about data being truncated on 5 rows of ‘nrStateSurrogate’. Upon investigation of these specific row numbers, MySQL was saying the surrogateQuant variable was truncated from original value of 0 to a new value of 0. So, this warning is not important. Always investigate all error/warning messages and verify that the total number of rows of imported data is correct (i.e., matches the CSV).

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| **October 8, 2020 revision:**  After successful import of the 3 tables above, you’ll need to make an update to the ‘nrSurrogate’ table. Copy and paste the following queries into Workbench and execute.  update movesdb20181022\_nrupdates.nrsurrogate set surrogateAbbr='GC' where surrogateID=13;  update movesdb20181022\_nrupdates.nrsurrogate set surrogateAbbr='RR' where surrogateID=19; |

**Step 4.** Configure MOVES to use the new database. Launch the MOVES GUI, click Settings, click Configure MOVES, which launches a new window.



Use the Default Database drop-down menu to select the alternative MOVES database you just created.



Click OK. This step launches a MOVES script to initialize connections to the new database and checks it for errors. If it passes the checks, the Configure MOVES box below will disappear and you’re ready to run MOVES with the new default database.

