**12/4/2019**

-- columns in table toyu.student

SELECT DISTINCT c.\*

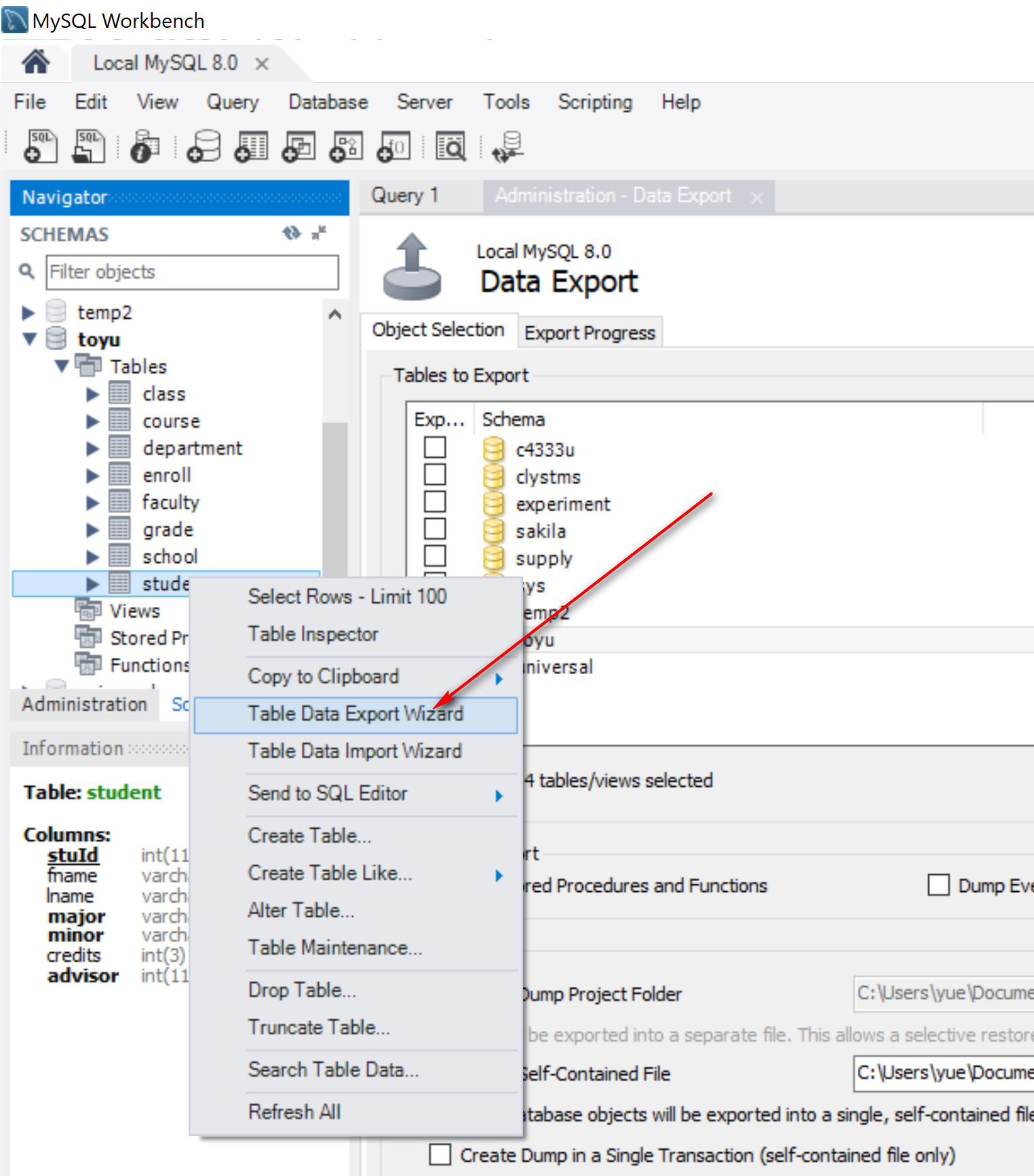
FROM information\_schema.COLUMNS c

WHERE c.TABLE\_SCHEMA = 'toyu'

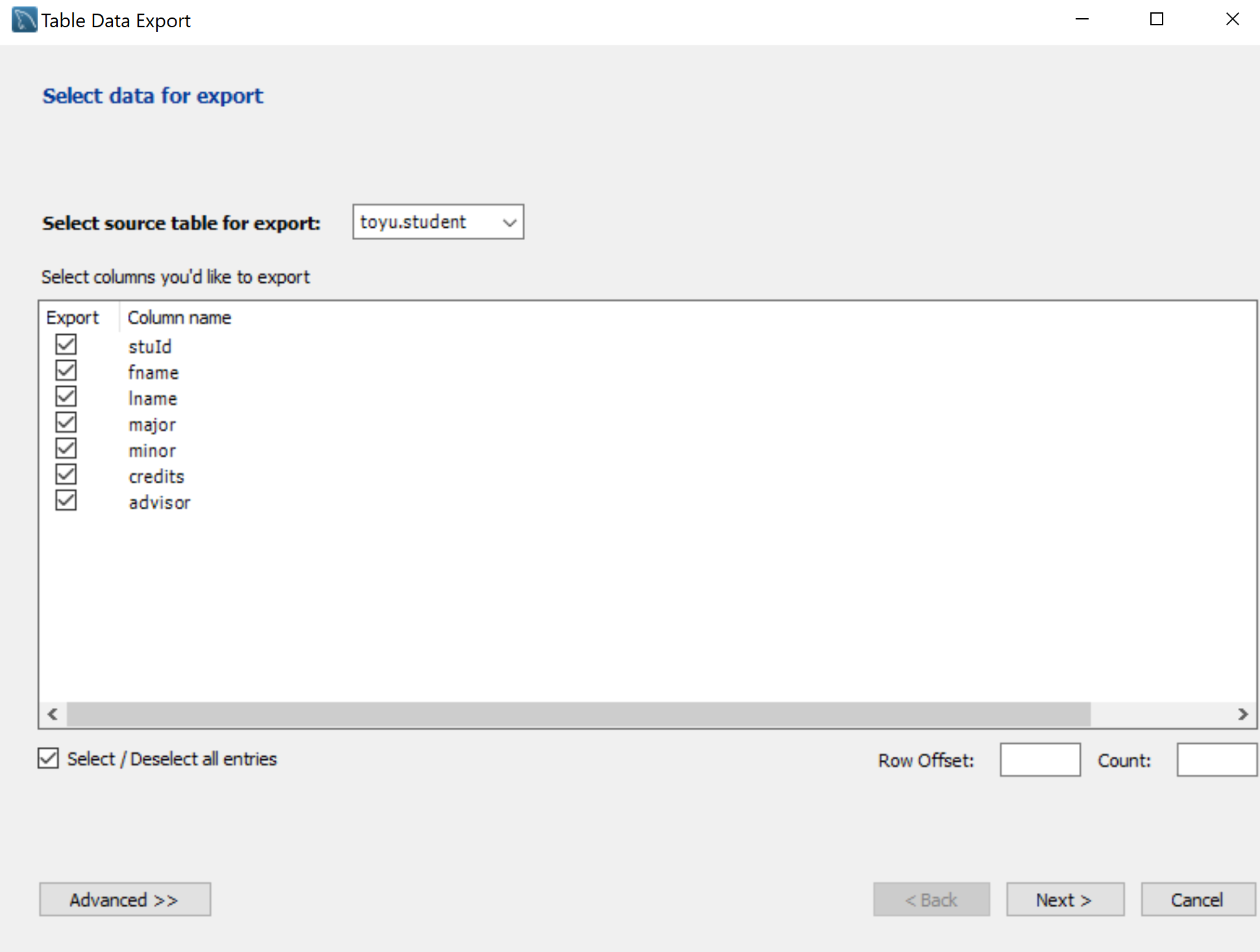
AND c.TABLE\_NAME = 'student';

the table student of the database toyu into a CSV file h9exp.csv.

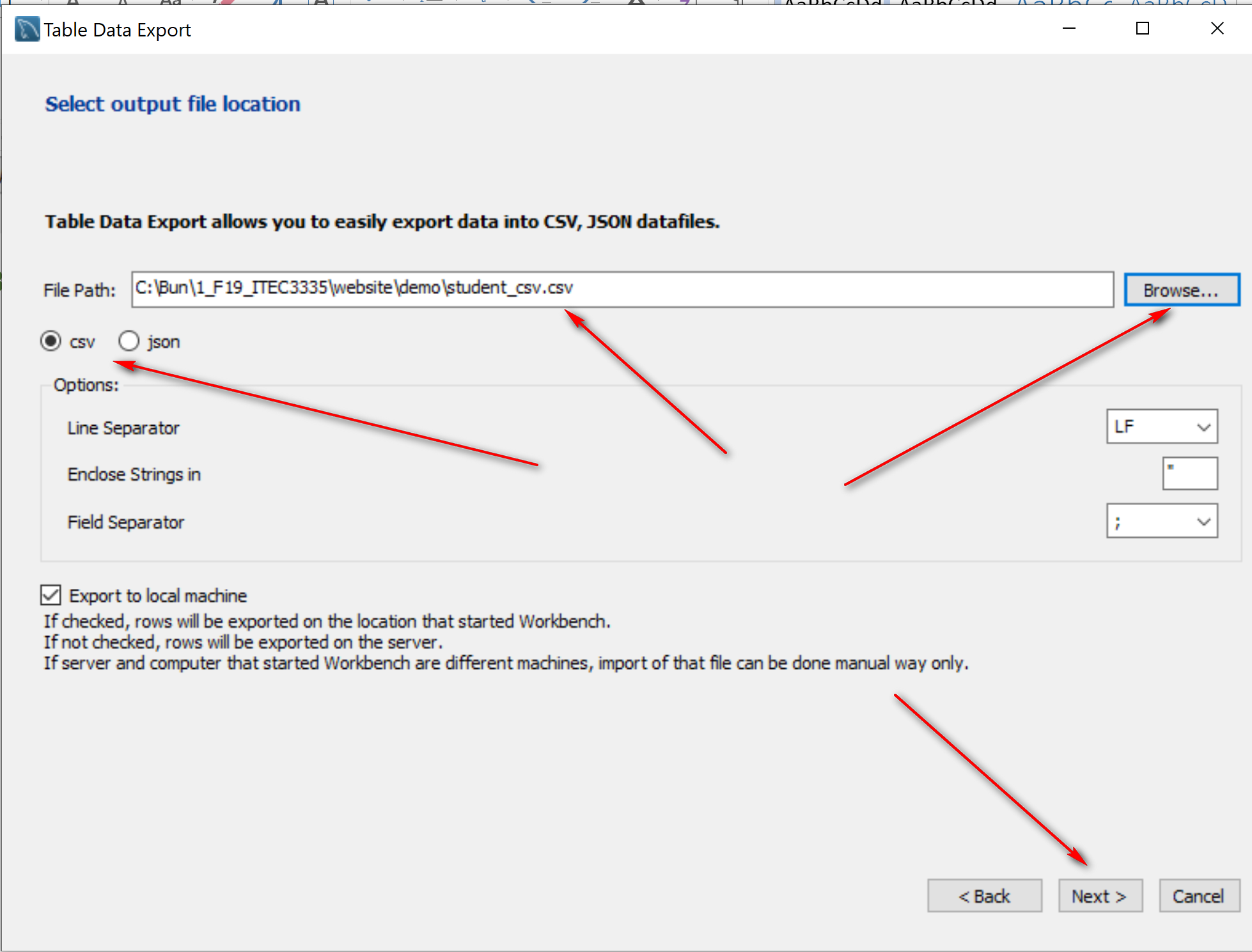
Step #1. Right click on the table student and select “Table Data Export Wizard”:



Step 2. Keep all columns and click ‘Next’



Step 3: Ensure CSV option is selected, the target file name is set probably and click ‘Next’:



…

Transfer $200 from account 1234 to 2345

<http://en.wikipedia.org/wiki/SQL#Transaction_controls>

Task t1:  
-- Assume: account 1234 = $1,000, account 2345: $500; total of two accounts: $1,500  
UPDATE Account SET amount=amount-200 WHERE account\_number=1234; -- (1) inconsistent state at this point. Total: $1,300  
UPDATE Account SET amount=amount+200 WHERE account\_number=2345; -- (2)

Sequence #1:

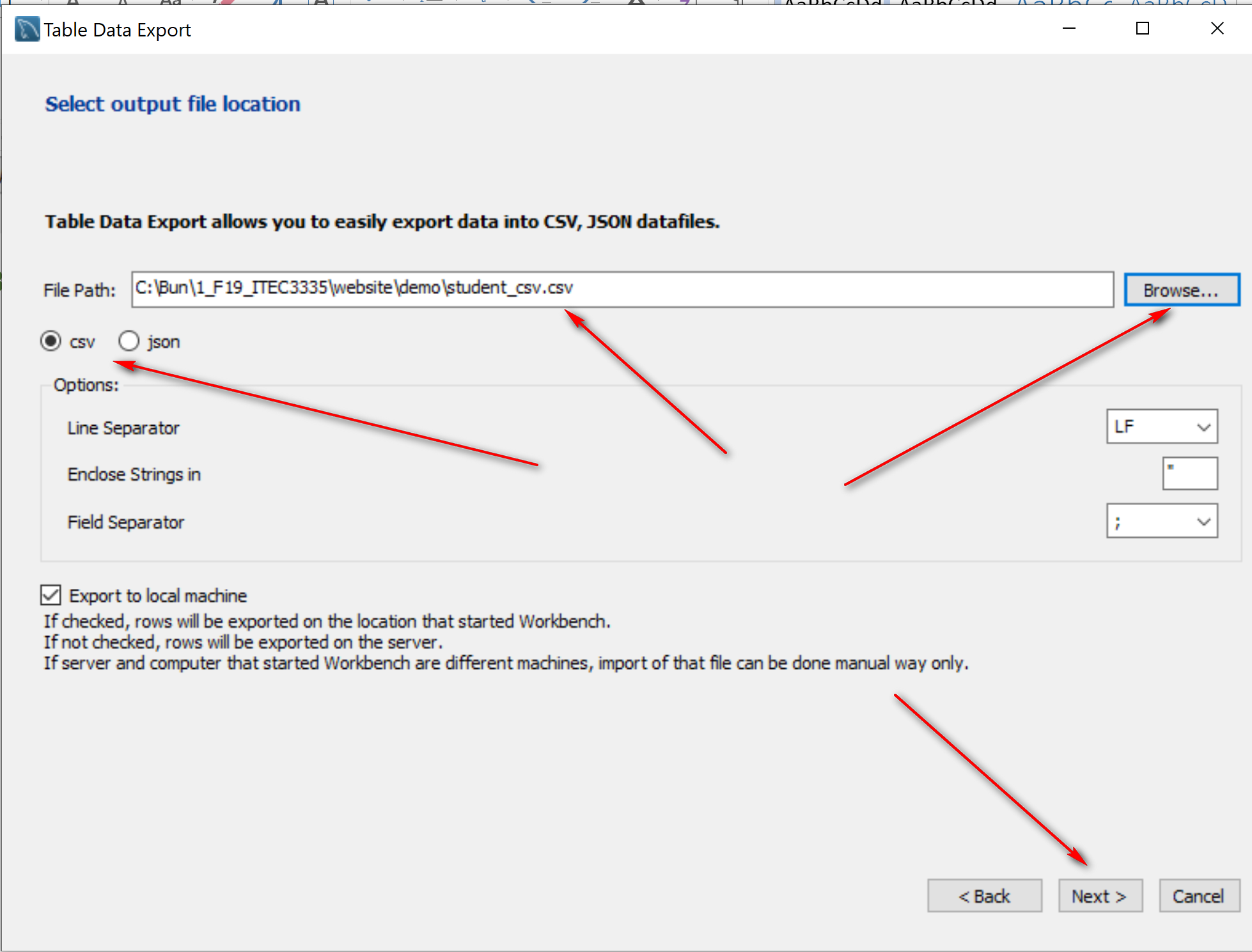
(1) Task t1 step (1): inconsistent $1,300  
(2) Task t1 step (2): consistent $1,500

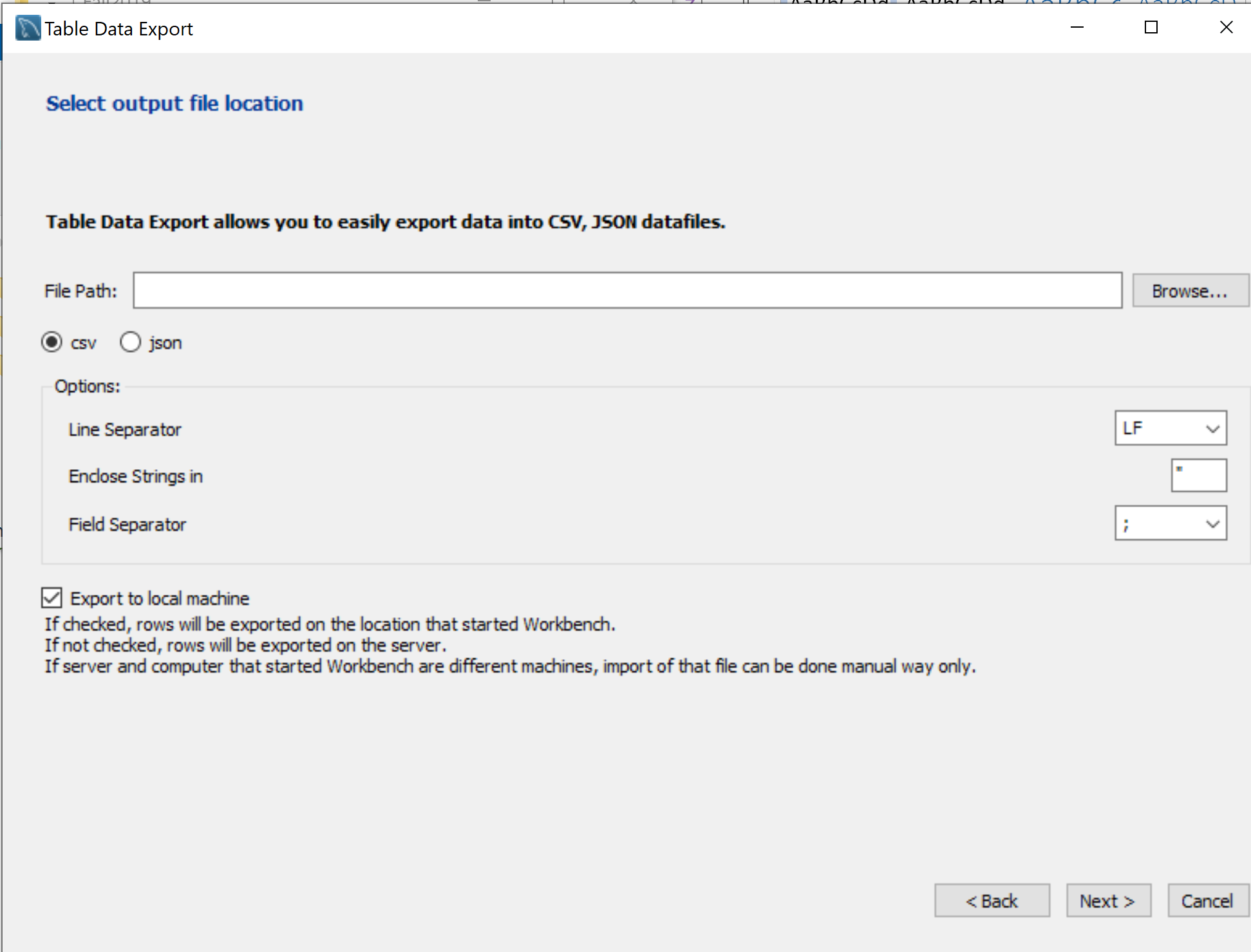
Sequence #2: read-write anomaly

(1) Task t1 step (1)  
(2) Task t2 account reports: account 1234 = $800, account 2345: $500 (another task access the data in its inconsistent state.)  
(3) Task t1 step (2)

Sequence #3: System crashes and recovery

(1) Task t1 step (1)  
(2) System crashes; task t1 aborted after step (1)





**System Catalog Examples:**

**SELECT** t.\*

**FROM** Information\_schema.**TABLES** t

**WHERE** t.TABLE\_SCHEMA = 'toyu';

*-- number of tables in toyu*

**SELECT** **COUNT**(t.**TABLE\_NAME**)

**FROM** Information\_schema.**TABLES** t

**WHERE** t.TABLE\_SCHEMA = 'toyu';

*-- all schema and their number of tables.*

**SELECT** t.TABLE\_SCHEMA, **COUNT**(t.**TABLE\_NAME**)

**FROM** Information\_schema.**TABLES** t

**GROUP** **BY** t.TABLE\_SCHEMA;