CSI 3130 Databases II (Fall 2016)

## Project (part D): Pass 1 -- (Submission Format) Due November 13

For this pass, you are required to submit an Excel file with the following columns (this is your transaction statistics log):

### Pass #

- #1 for this pass

# Session 1 (exact) transaction submission time

### Session 2 (exact) transaction submission time

- you may use **explain analyze** to get this information

#### Trial #

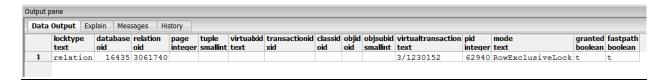
- you should to 20 trials for each pass (20 simultaneous transaction executions)

## Locking information for the corresponding trial

- found in pg locks, to view this, add the following to your transaction

SELECT \* FROM pg locks WHERE database = <OID> AND relation = <OID>;

## This includes the following columns



### Deadlock detected? (Y/N)

- Postgresql detects deadlocks automatically and displays a deadlock message

## Serializability ensured? (Y/N)

- is the database in a consistent state?

# Important notes:

- Be sure you understand the difference between **Isolation Level** (what version of the database a transaction sees) and **Locking Mode** (under what conditions Postgresql decides a deadlock will occur).
- Check logs and get all stats info before rolling back the transaction in each session
- Remember to ROLLBACK;