

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**

Output pane														
Data Output														
	locktype	database	relation	page	tuple	virtuabid	transactionid	classid	objid	objsubid	virtualtransaction	pid	mode	granted
	text	oid	oid	integer	smallint	text	xid	oid	oid	smallint	text	integer	text	boolean
1	relation	16435	3061740								3/1230152	62940	RowExclusiveLock	t

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;