

Modifying Data with SQL Part 4 Notes

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1 Intro to Transactions

- Transaction
 - **Syntax:** BEGIN TRANSACTION; or BEGIN;
 - * Turns off autocommit and begins a transaction
 - **Syntax:** COMMIT;
 - * Saves all results of the statements at the beginning of transaction to disk
 - Makes a batch of process atomic
 - * All are processed before being committed
 - * If power loss occurs during processing, no data is saved to database

2 Rolling Back from Transactions

- **Syntax:** ROLLBACK;
 - Resets the state of database to before the beginning of transaction
 - Is useful when an error / power outage occurs in the middle of transaction
 - Or spelling mistakes

3 Quiz 1

1. Which of these is the correct way to start a transaction?

- A. TRANSACTION BEGIN;
- B. BEGIN;
- C. START;

Answer: B

2. The BEGIN; or the BEGIN TRANSACTION; statement does what?

- A. Reverses any changes since the before the statement.
- B. Turns autocommit mode on.
- C. Turns autocommit mode off.

Answer: C

3. What following statement reverts changes since a transaction began

- A. UNDO;
- B. COMMIT;
- C. REVERT;
- D. ROLLBACK;

Answer: D

4. If my computer crashed in the middle of a transaction, what state would my database be in?

- A. It would have some of my statements persisted.
- B. It would be in the same state before the transaction.

Answer: B

5. What does the COMMIT; statement do?

- A. Reverts any changes.
- B. Turns autocommit mode off;
- C. Commits all changes since the transaction began and turns autocommit mode on.

Answer: B