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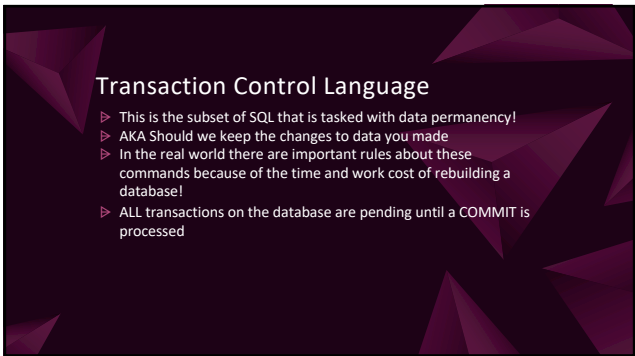
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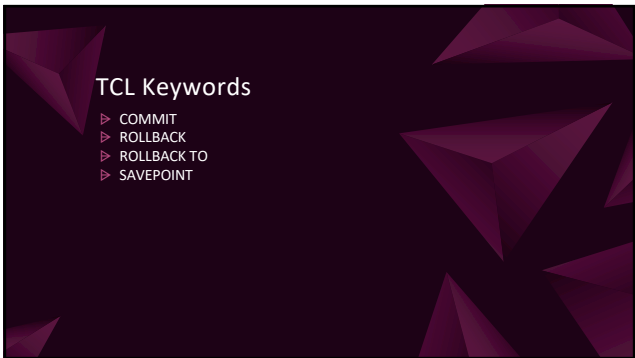
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## SAVEPOINT

- ▶ These are temporary saves of the internal state of the database similar to how you might use save files in a video game
- ▶ Like the edit history in a text editor as long as you DON'T change anything
- ▶ Sequential
- ▶ You can't see when/what your SAVEPOINT are if you clear the console!!
- ▶ You *can* ROLLBACK TO a SAVEPOINT, but any SAVEPOINT after your specified value are deleted!!!!
  - ▶ Definitely not like a video game save 🐱

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## SAVEPOINT usage

- ▶ Use the snake\_case naming convention to describe what is being saved
- ▶ Don't be afraid to make a bunch
- ▶ Comparable to a GitHub commit

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1 SAVEPOINT demo_code;
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## ROLLBACK TO

- ▶ How you return to a SAVEPOINT in your SQL transaction history
- ▶ Any and all transactions AFTER the specified SAVEPOINT are deleted!
- ▶ Any and all transactions BEFORE the specified SAVEPOINT still exist in the transaction history

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### ROLLBACK TO usage

- Be sure to specify the correct SAVEPOINT
- Remember any subsequent transactions are LOST!

```
1 ROLLBACK TO deap_code;
```

Script Output - Task completed at 0.02

Commit complete.

Rollback complete.

Savepoint created.

Rollback complete.

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### COMMIT

- Establishes permanent data in the database
- Not to be done lightly
- All SAVEPOINT information is erased!
- Only way to undo is to reload your data 🐱
- Might be manually!!!!



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### COMMIT usage

- As with all other TCL commands the COMMIT statement is simple and returns very little
- SQL Developer automatically runs this command when you exit normally!!!!

```
1 COMMIT;
```

Script Output - Task completed in

Commit complete.

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### ROLLBACK

- Wipes out ANY and ALL DML and SAVEPOINT transactions since the previous commit
- All DML statements or transactions are temporary until locked in with a COMMIT
- Only option if you forget what your SAVEPOINT name is or where in the transaction history the change was made

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### ROLLBACK usage

- Just the keyword followed by our great friend the semicolon!

```
1 ROLLBACK;
```

Script Output

Task completed i

Commit complete.

Rollback complete.

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