The SQL UPDATE Statement

TCL's COMMIT and ROLLBACK

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Transaction Control Language

- **the COMMIT statement**

  - saves the transaction in the database

  - changes cannot be undone

- **the ROLLBACK clause**

  - allows you to take a step back

  - the last change(s) made will not count

  - reverts to the last non-committed state

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it will refer to the state corresponding to the last time you executed COMMIT

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TCL's COMMIT and ROLLBACK

TCL's COMMIT and ROLLBACK

COMMIT;

1

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TCL's COMMIT and ROLLBACK

COMMIT; COMMIT;

1   2

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TCL's COMMIT and ROLLBACK

COMMIT; COMMIT;

1   2   …

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TCL's COMMIT and ROLLBACK

COMMIT; COMMIT;   COMMIT;

1   2   …   10

TCL's COMMIT and ROLLBACK

COMMIT; COMMIT;   COMMIT;   ROLLBACK;

1   2   …   10   1

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TCL's COMMIT and ROLLBACK

- ROLLBACK will have an effect *on the last execution* you have performed

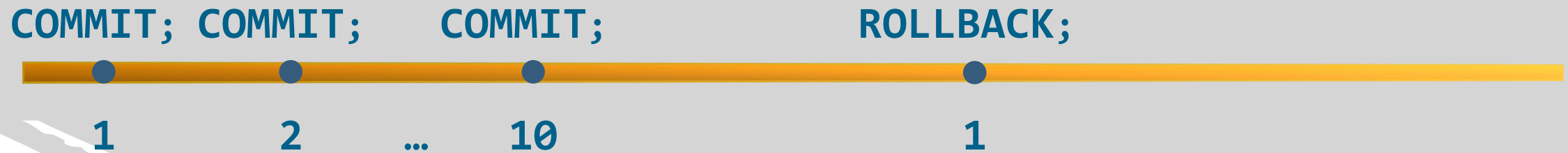COMMIT; COMMIT;   COMMIT;   ROLLBACK;

1   2   ...   10   1

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TCL's COMMIT and ROLLBACK

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COMMIT; COMMIT;   COMMIT;   ROLLBACK; ROLLBACK;

●————————●————————●—————————————————●————————●——————

1   2   …   10   1   2

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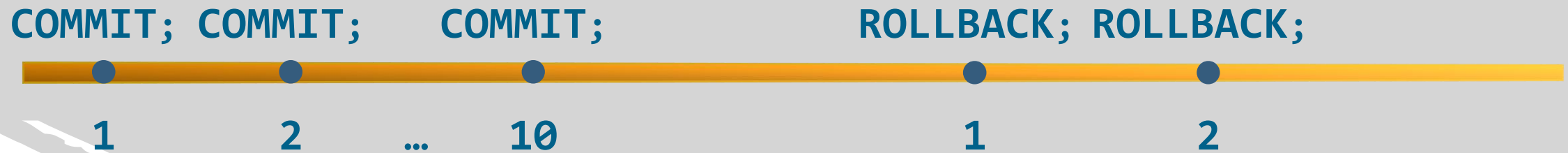# TCL's COMMIT and ROLLBACK

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COMMIT; COMMIT;   COMMIT;   ROLLBACK; ROLLBACK;

1   2   …   10   1   2   …

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TCL's COMMIT and ROLLBACK

- ROLLBACK will have an effect *on the last execution* you have performed

COMMIT; COMMIT;   COMMIT;   ROLLBACK; ROLLBACK; ROLLBACK;

1   2   …   10   1   2   …   20

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TCL's COMMIT and ROLLBACK

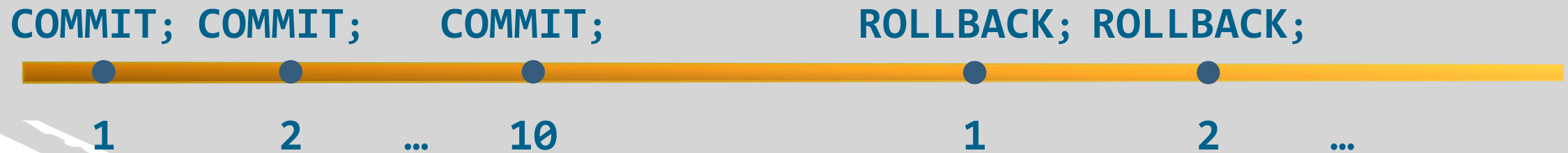- ROLLBACK will have an effect *on the last execution* you have performed

- you cannot restore data to a state corresponding to an earlier COMMIT

COMMIT; COMMIT;   COMMIT;   ROLLBACK; ROLLBACK; ROLLBACK;

   1   2   …   10   1   2   … 1   20