

PostgreSQL术语简明指南

xiongcc 2025/06

About me



Hi, I'm xiongcc.

PostgreSQL expert, open-source enthusiast, and software engineer.

- Founder of PostgreSQL-howto in chinese project
- Translator of PostgreSQL 14 Internals
- PostgreSQL 14 Internals in chinese: https://postgres-internals.
- Personal Homepage: https://xiongcc.cn

Feel free to Connect with Me:

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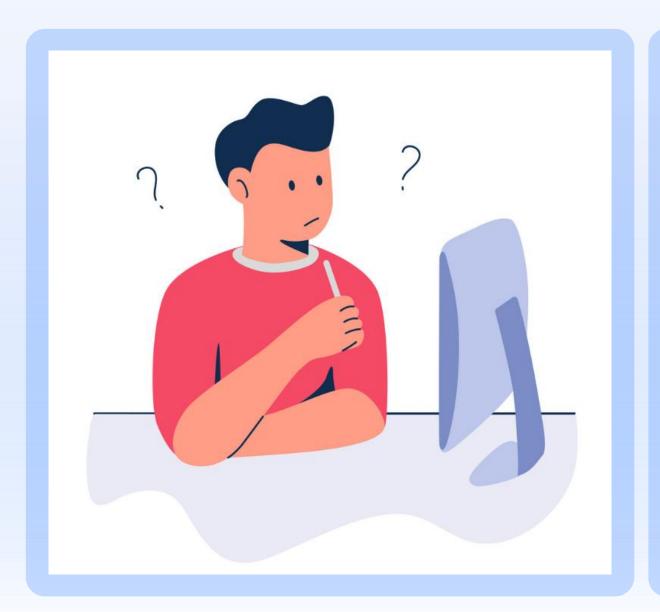




扫一扫上面的二维码图案,加我为朋友。

晦涩的术语





冻结?

tuple、row、元组?

吸尘 or 真空?

xact or txid?

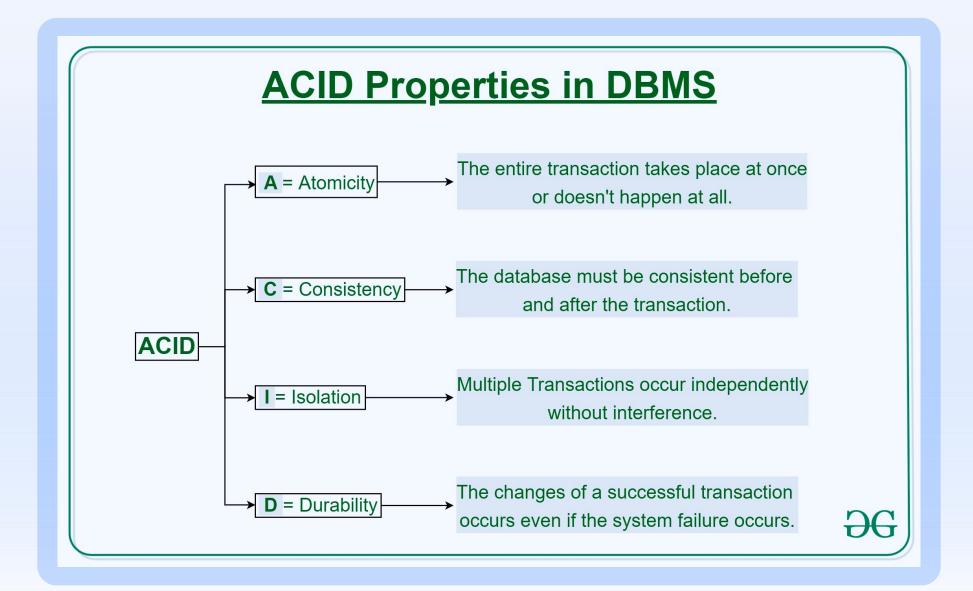
Multixact?

xmin?

...

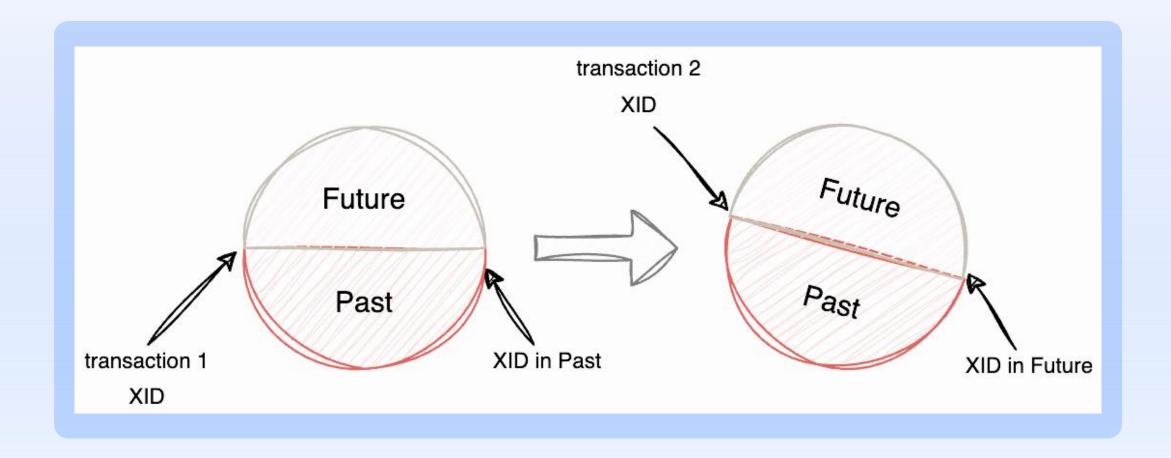
xact or txid, virtual txid





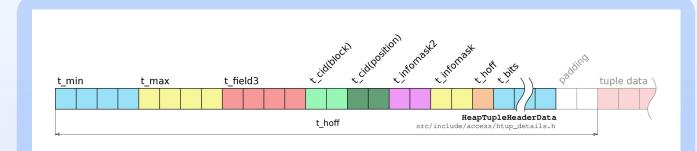
wraparound, "回卷"











txid current = 12

BEGIN; INSERT INTO t VALUES ('A'); COMMIT;

Tuple ID	xmin	xmax	cid	ctid	data
1	12	0	0	(0,1)	A

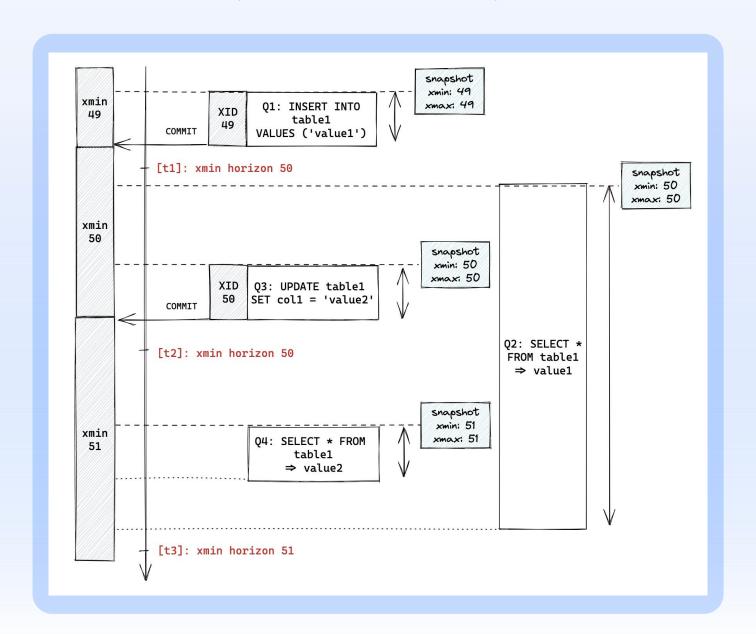
txid current = 13

BEGIN; UPDATE t SET data = 'B' WHERE data = 'A'; COMMIT;

Tuple ID	xmin	xmax	cid	ctid	data
1	12	13	0	(0,2)	Α
2	13	0	0	(0,2)	В

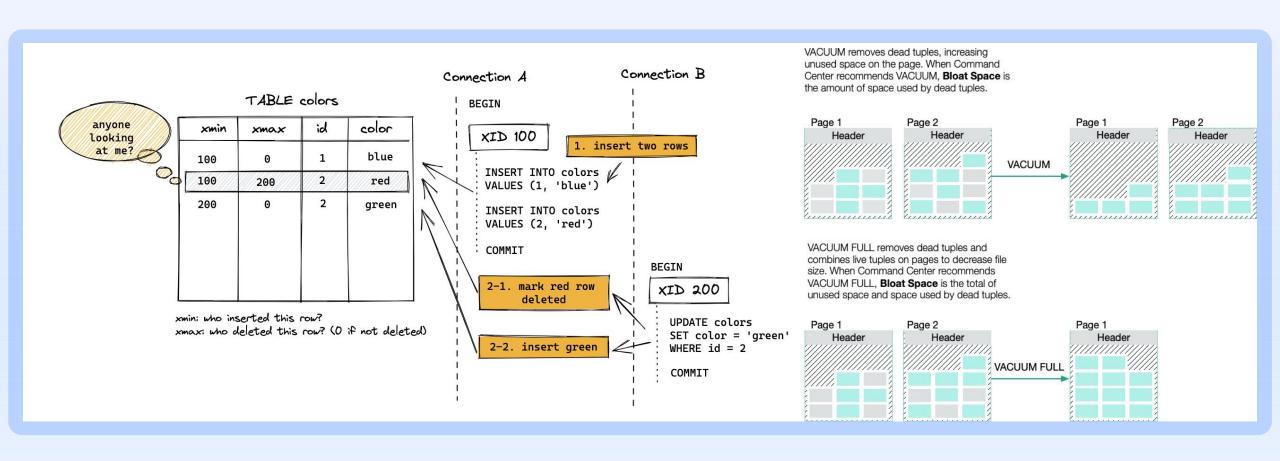


xmin, xmax & cmin, cmax



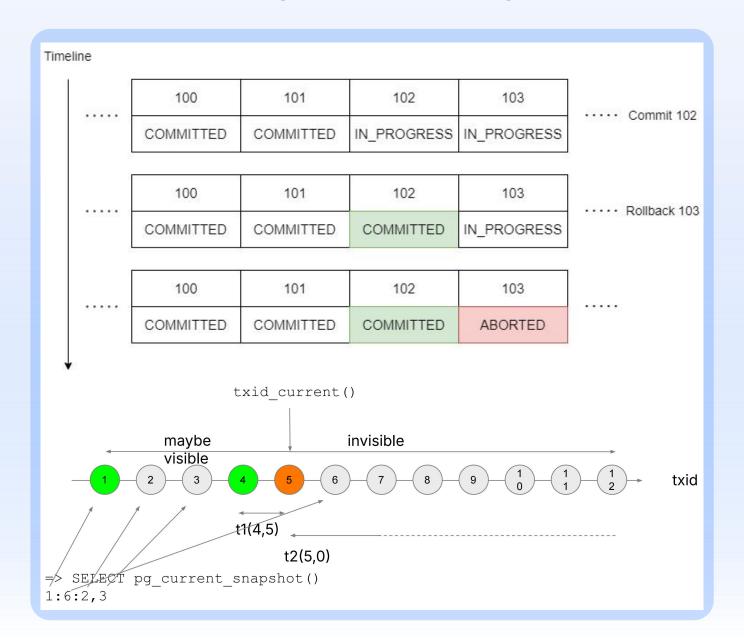
vacuum, 真空!





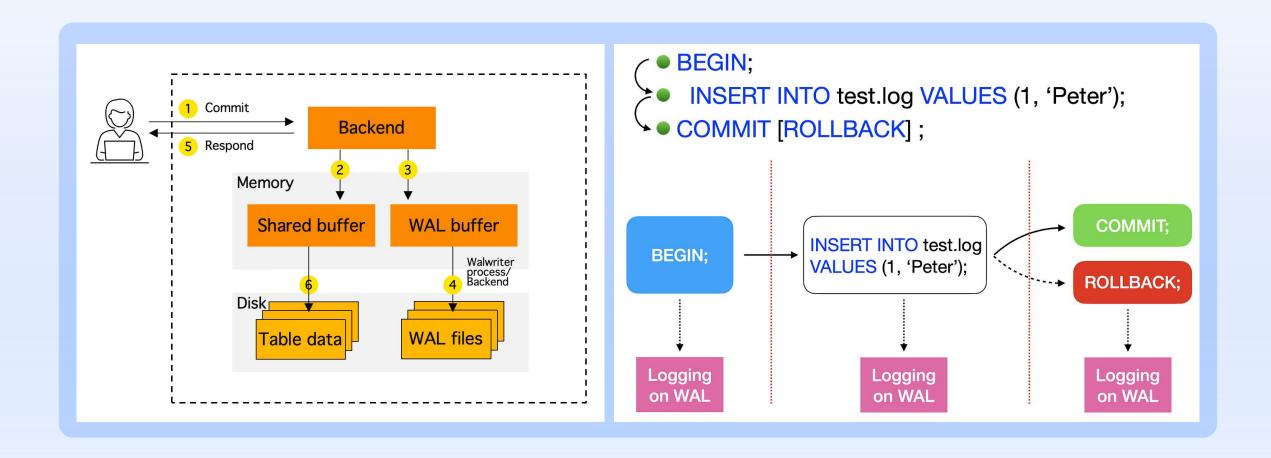


clog, commit log



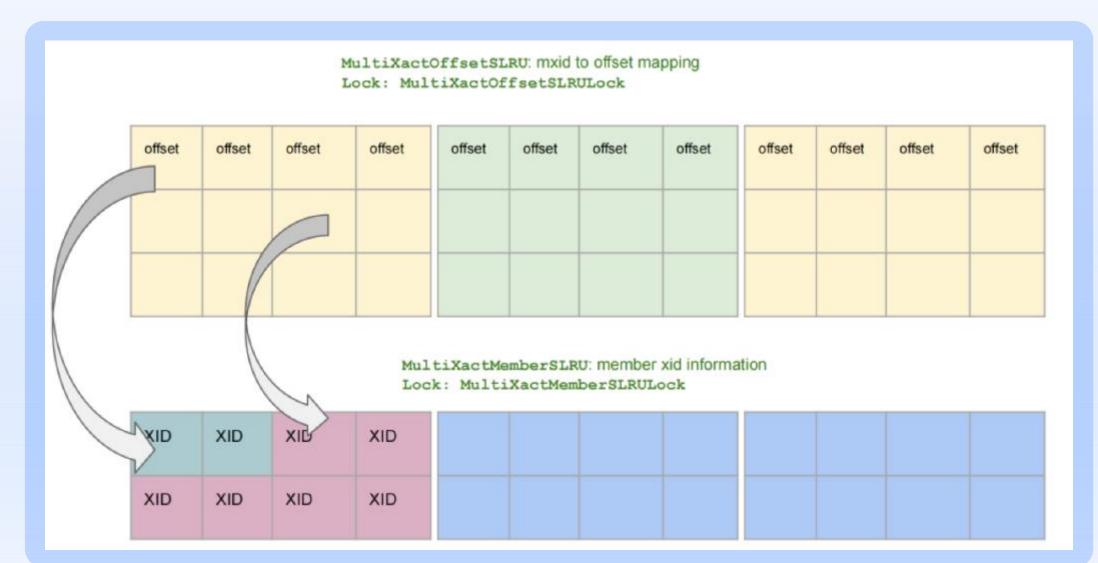
WAL, write ahead log



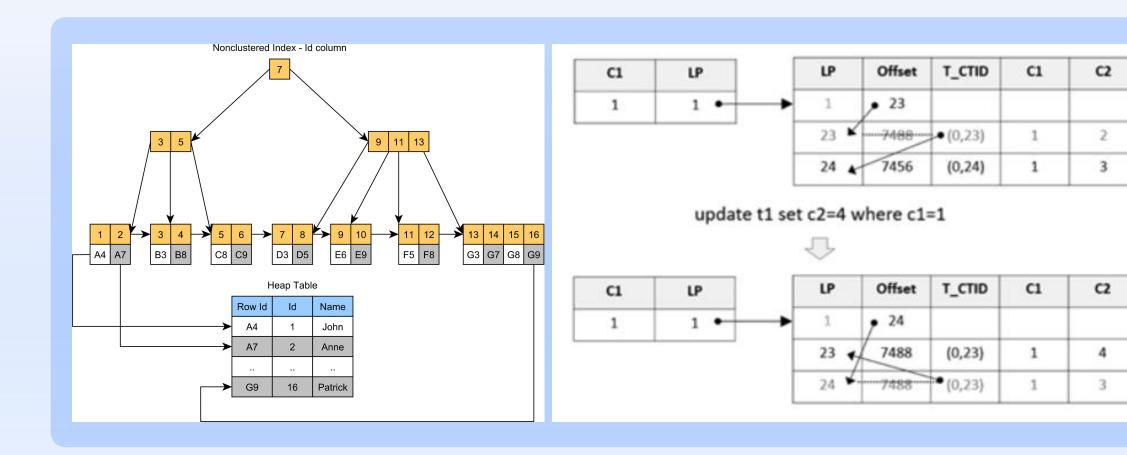


MultixactID











谢谢聆听



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