

# Client

Tx 1

Tx 2

Tx 3

Tx 4

Tx 5

...

Tx 51

Tx 52

Tx 53

Tx 54

...

Tx N

## Buffer Pool

Free List<sup>①</sup>

Search free page



*If don't have free page*

**C** : Clean Page   **F** : Flushed Page   **D** : Dirty Page

Flush List

Search flush list



<sup>②</sup> Check Dirty Page to Flush

## Main LRU List

Head **C** **C** **C** **D** **C** **D** **D** **C** **C** ... **D** **C** **C** **D** **C** **C** **C** **C** ... **C** **C** **D** **C** **D** **D** **D** **D** **D** Tail

*Discard*

<sup>⑤</sup> Read page ← **RW-Serialization** → <sup>④</sup> Discard the data

## Storage

**F** **F** **D** **F** **D** **D** **F** **F** **D** ...

Transaction Data Area

Change to Page # Change to Page # Change to Page # Change to Page # ...

WAL Log Area

<sup>③</sup>-2 Flush dirty pages

<sup>③</sup>-1 Flush WAL