Sharding

Sharding is a horizontal partition of data in a database.

Horizontal partitioning is a design principle whereby rows of a database table are held separately, rather than splitting by columns (as for normalization).

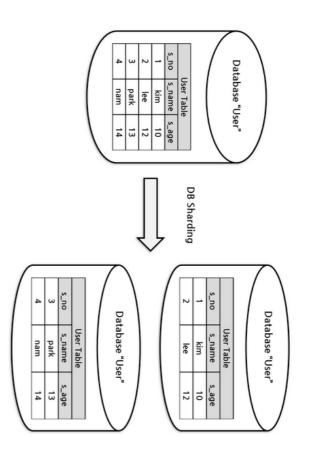




A database shard can be placed on separate hardware

database is reduced

improving performance



The disadvantages

- A heavier reliance on the interconnect between servers
- Increased delay when querying
- Issues of consistency and durability due to the more complex failure modes of a set of servers

