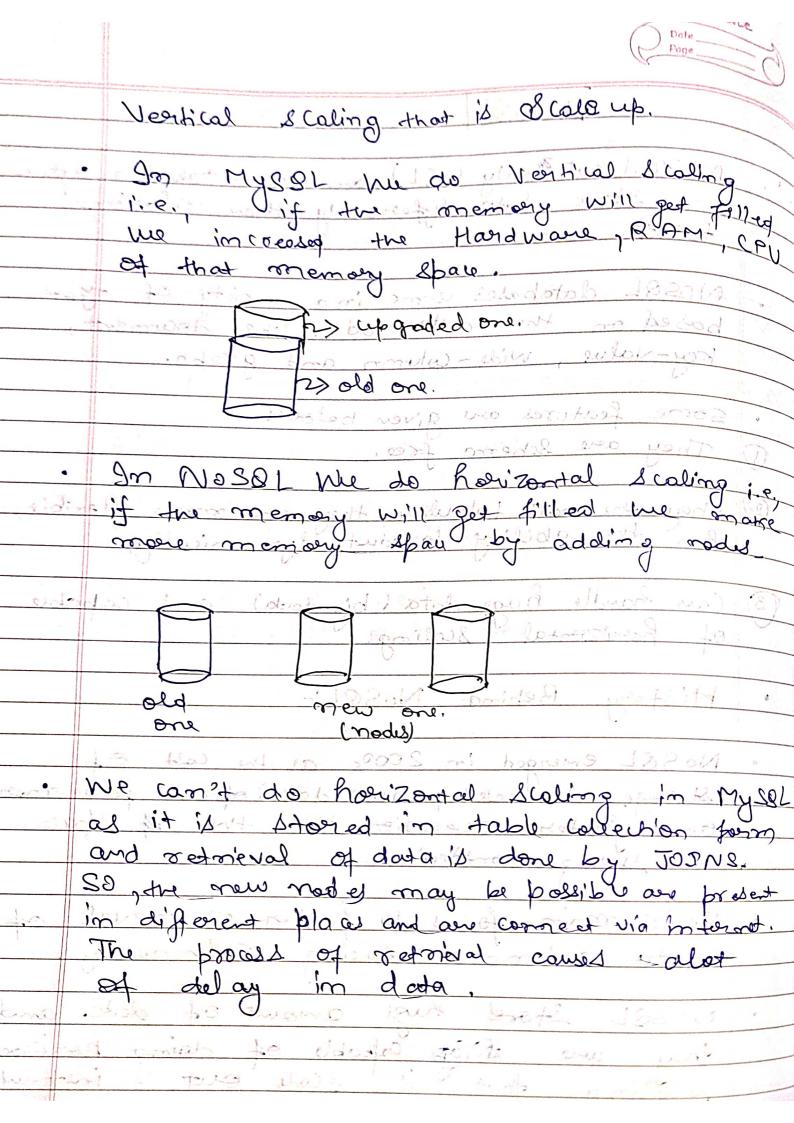


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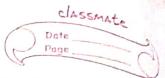
- NOSQL (not only SQL) are non-tabular databases tables.
- NOSBL databases come in a variety of types based on their data model. Like document, Key-value, wide-column and graph.
- some features au given below! They are Schema free.
- They are not tabulary they are more flexible, has the ability to adust dynamically.
- 3) Can handle huge data (big data) and capable of horizontal Scaling.
- · History Behind NoSQL:
 - · NoSQL emerged in 2000s as the cost Storage decreased, now developers focus more on faster execution than the space er storage Constraints.
- · Their main focus to faster retrieval of
- · No SOL Stored huge amount of doing horizontal

 they are stored by Scale out instead of





Scaling horizontally is achieved through Sharding on Replica-sett. NOSSL is faut tolerence as data is stored at Queries in NOSOL is forter than SOL as SOL dataposes is typically mormalised, so query for a single object requires join data from moultiple tables. . Caching mechanism use and NoSOLis mostly used for cloud applications. NOSOL database even store the velationship data in different way than the MySOL. ACID properties too. Types of NoSQL, W Key- Value stores:-Simplest form, stores data as key-value pairs (blike a dictionary). E. g.) Amazon Dynamo DB, Oracli NoSOL.



2) Column-Oriented Stores on aking analytical E.g. => Cassandra, RedShit 3) Dolument-Based Stores Stores data in document format (Similar to JSON). I de al for: e- commona, mobile appe, E.g. >> MongoDB, CoulchDB. 4) (graph- Based stores: med alondolos 10201) · Focuses on relationships between data element (nodel & links). Knowledge graphs.

E.p. > Neo4j. NoSOL databases Dis-advantages (1) Dota Redundancy: - Since NOSOL databall for sed dains data duplication. D update & Delete operations are costly. All NOSOL language does not Support ACID.