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NoSQL

## 2. NoSQL ?

## NoSQL

MongoDB, Cassandra, CouchDB, Hypertable, Redis, Riak, Neo4j, HBASE, Couchbase, MemcacheDB, RevenDB and Voldemort are the examples of NoSQL databases.

3. MySQL MongoDB ?

|                       |         |  |        |                 |
|-----------------------|---------|--|--------|-----------------|
| MySQL                 | MongoDB |  | MySQL  | MongoDB         |
| (data representation) |         |  | schema | (normalization) |

MySQL MongoDB

4. MongoDB CouchDB CouchBase?

MongoDB CouchDB MongoDB CouchDB NoSQL  
MongoDB CouchDB

## MongDB vs CouchDB

## CouchDB vs CouchBase

|            |       |   |
|------------|-------|---|
| 5. MongoDB | NoSQL | ? |
|------------|-------|---|

MongoDB NoSQL

journaling 32

journaling 32

7. journal (entry) ( ) ?

journal (group)

8. MongoDB ?

MongoDB

( );

9. (namespace) ?

MongoDB BSON (collection)

(namespace)

10. ?

(re-save())

11. ?

12. null ?

(null) (collection)

{}

13. fsync ?

( 60 )

( fsync

getLastError\_old )( ??)

14. / ?

MongoDB

MySQL MyISAM

15. ?

MongoDB

16. ?

10 30

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(strong consistent read)

(eventually consistent query)( slaveOk )

17. master primary?  
(replica set) /  
(failover) primary
18. secondary slave?  
Secondary primary oplog(local.oplog.rs)
19. getLastError ?  
getLastError( "Safe Mode") getLastError
20. (sharded) MongoDB ?  
(unsharded) MongoDB  
(sharding)  
(sharding)
21. (sharding) (replication) ?  
(shard)  
(shard)
22. (shard) ?  
MongoDB (range) (collection)  
(chunk)  
64Mb 64 Mb
23. (chunk) ?  
(shard) (ownership transfers)
24. (shard) ?  
(shard) " Partial"  
(shard) MongoDB
25. moveChunk ?  
(shard) (balancing)
26. Mongo ?  
db.\_adminCommand("connPoolStats");
27. (moveChunk) ?

- (consistent) (deterministic);
- (shard)
28. (replication) (journaling) ?
29. Chunk
- Chunk
30. MongoDB A:{B,C} A:{B,C} A:{C,B}
- A:{B,C}
31. Shard
- " Partial"
- MongoDB
32. MongoDB
- MongoDB javascript db.system.js
33. MongoDB GridFS MongoDB GridFS
- GridFS MongoDB GridFS
- BSON