SQL

ENUM

SQL

Create table size(name ENUM('Smail,'Medium','Large');

CHAR VARCHAR

CHAR 1 255

CHAR

SET		
BLOB		
ENUM		
CHAR		
TEXT		
VARCHAR		
Storage mechanism		
Locking levels		
Indexing		
Capabilities and functions.		
TIMESTAMP	Zero	UPDATE
CURRENT_TIMESTAMP		

Show status

Bytes received Bytes sent

Com

Handler

Sort_*

Show session status like 'Select'; Show profiles SET

profiling=1; Show profiles\G Show profile;

LIKE REGEXP

SELECT * FROM <tablename> WHERE * REGEXP "^b";

SELECT * FROM <tablename> WHERE * LIKE "%b";

BLOB

BLOB BLOB

- TINYBLOB
- BLOB
- MEDIUMBLOB

• LONGBLOB

TEXT

TEXT BLOB TEXT

- TINYTEXT
- TEXT
- MEDIUMTEXT
- LONGTEXT

BLOB

BLOB TEXT BLOB

TEXT

AFTER INSERT
BEFORE UPDATE
AFTER UPDATE
BEFORE DELETE and
AFTER DELETE
Abs num
• floor num

• insert (s1,index,length,s2)

• ceil num

BEFORE INSERT

- o s2
- o Index , 1
- o Lebgth
- upper str ucase str
- lower str lcase str
- left str length str length
- right str length str length
- substring str index length str index
 - length index 1
- reverse str str

- curdate current_date()
- curtime current_time()
- now
- datediff d1 d2 d1 d2
- adddate date num date num
- subdate date num date num

• Count

• sum

avg

• Max min

MyISAM InnoDB

•

NULL NULL , NOTNULL 0 -1

MySQL 0 cpu I/O 0 MySQL UTF-8 count(mycol) count()* MySQL 0 () MySQL UNION UNION

o UNION ALL

UNION ALL UNION

UNION ALL

alter table tableName **add** 索引(索引字段)

primary key

unique

fulltext

index

index index_name

: BDB

: MyISAM

INNODB

• MyISAM mysql

MyISAM MyISAM MyISAM

o MyISAM

o MyISAM varchar text BLOB

MyISAM

optimize table

o MylSAM myisamchk

MyISAM

• MyISAM Merge MyISAM

MyISAM

• InnoDB InnoDB

MyISAM

- memory(heap)
- archive

select insert

- Desc[ribe] tablename
- show engines

mysqldump -u 用户名 -p 数据库名 > 导出的文件名

mysqldump -u 用户名 -p 数据库名 表名> 导出的文件名

mysqldump -u dbuser -p -d --add-drop-table dbname >d:/dbname_db.sql

-d

--add-drop-table create

drop table

truncate

drop>truncate>delete

key-value 2.

strings map list sets sorted sets

- Redis in-memory
- Redis Memcached
- key/value Redis
- Redis
- Redis k/v list set zset

hash

- Redis master-slave
- Redis

Redis	key-value		Memcached		
			value	string	
lists	sets	zsets			
push/pop	add/remove				
Redis	_		/	TCP	
			Socket		
Redis			Redis		

key

Redis

Redis key set Redis set key Redis rdb/aof Redis presharding Redis 10000 0 R0 ID 10001 20000 ID R1 Redis hash

object_name:

key

	hash	key			crc32 hash	key
foobar	cro	c32(foobar)		93024922		
			0-3			4
Redis		9302	24922 % 4	= 2	key foobar	R2
					%	
1.						
					key	Redis-
	Server				ey	redis
		ey				
		oʻy		Redis		Pre-
	Sharding	1		Redis		110
	orial all ig)				
	Pre-Shar	ding				Redis
					Redis	
		9 R	edis			
	1.		Redi	is-Server		
	2.	Redis-Serv	er er	(slaveof)		Redis-Server
		Redi				

ΙP Redis-Server IP 4. RedisA Prd-Sharding Redis-Server Redis 2. Redis Redis-Server Redis-Server IΡ ΙP IΡ slaveof no slaveof IP PORT one (NoSqI),Mongo DB (OO), Mongo DB Document Mongo DB SQL , CRUD .

(Replication)

RedisA

3.

Python PHP Ruby Java C C# Javascript Perl C++

Erlang . NET

BSON JSON

JSON

Mongo JSON

Mongo

Mongo

Mongo

Mongo

Mongo

Mongo

Mongo Mongo

MapReduce

mongodb memcached mongodb

memcached Redis

tcp

1.

2.

Redis memcache mongodb

memcache

Redis Redis IO

mongodb

3.

Redis 2.0 VM

key value memcache

LRU memcache mongoDB VM4. Redis sharding, hash Redis Memcache hash mongoDB master-slave,replicaset paxos ,auto sharding 5. Redis AOF aof memcache MongoDB 1.8 binlog

6. Memcache cas Redis mongoDB 7. (mapreduce), mongoDB 8. Redis memcache sharding MongoDB:

1. C 10

2. Copy-on-write save 300 10

(Append-only file aof)

3.

4. -- Slave 21

Amazon 10G key set

5. Redis

web2.0

Sharding