

:

Web

DBA

(

SQL)

SQL

MySQL

Web

1.

MySQL
MySQL

MySQL

SQL

NOW()

RAND()

CURDATE()

MySQL

SQL

MySQL

2. EXPLAIN SELECT

EXPLAIN

MySQL

SQL

EXPLAIN

1/2

EXPLAIN SELECT (phpmyadmin group_id)

group_id

9 16 rows 7883

3. LIMIT 1

fetch

LIMIT 1

MySQL

(
1/2 1/2
Select * Select 1)

4.

4
last_name LIKE 'M%'

WHERE post_content LIKE
MySQL
(Tag)
apple%'

5. Join

MySQL JOIN SQL Join
Join
DECIMAL STRING
Join
INT Join MySQL (
)

6. ORDER BY RAND()

? ?
N
MySQL
RAND() (CPU)
Limit 1 ()

7. SELECT *

WEB

8. ID

INT (UNSIGNED) ID AUTO_INCREMENT

users email
 VARCHAR
 ID

MySQL

1/2

1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
 ID ID ID ID ID ID ID ID ID

9. ENUM VARCHAR

ENUM TINYINT

1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
 VARCHAR ENUM

MySQL 1/2 1/2)
 VARCHAR ENUM
 PROCEDURE ANALYSE()

10. PROCEDURE ANALYSE()

PROCEDURE ANALYSE() MySQL

INT
PROCEDURE ANALYSE()
VARCHAR
ENUM
MEDIUM INT

phpmyadmin
structure 1/2
Propose table

11. NOT NULL

NOT NULL
 NULL
 (0 NULL)?
 (? Oracle NULL Empty !)
 Empty 1/2 NULL 1/2
 (INT NULL
 NULL
 NULL
 NULL
 NULL

12. Prepared Statements

Prepared Statements
 prepared statements
 SQL

Prepared Statements
 SQL 1/2
 framework ORM

Prepared Statements
 MySQL

MySQL
 Prepared Statements

Prepared Statements

5.1

PHP

prepared statements
PDO.

mysql i

13.

SQL

SQL

mysql_unbuffered_query()
mysql_query() fetch

SQL

MySQL

```
mysql_free_result()
mysql_data_seek()
```

mysql_num_rows()

14. IP UNSIGNED INT

```

      VARCHAR(15)
      IP
      4
      WHERE
      IP between ip1 and ip2

```

UNSIGNED INT	IP	32
--------------	----	----

INET_NTOA() INET_ATON() IP PHP
ip2long() long2ip()

15.

MySQL data types categorized by length and storage:

- Fixed-length** (1/2 icon): CHAR, VARCHAR, TINYTEXT, TEXT, BLOB
- Variable-length** (1/2 icon): BINARY, VARBINARY, MEDIUMTEXT, LONGTEXT, MEDIUMBLOB, LONGBLOB
- Static** (1/2 icon): TINYINT, SMALLINT, MEDIUMINT, INT, BIGINT, DECIMAL, NUMERIC, DATETIME, TIME, DATE, YEAR, ENUM, SET

MySQL

$\frac{1}{2}$ $\frac{1}{2}$ ()

16.

$\frac{1}{2}$ $\frac{1}{2}$ (
 100)

Users

?

ID

$\frac{1}{2}$ last_login $\frac{1}{2}$

ID

Join

17. DELETE INSERT

DELETE INSERT

Apache

30
WEB Crash / 30

LIMIT

18.

MySQL Storage Requirements

INT (MEDIUMINT, SMALLINT, TINYINT
DATE DATETIME

TABLE Slashdot (2009 11 06) ALTER
3

19.

MySQL MySQL: InnoDB MyISAM InnoDB
MyISAM?

MyISAM update MyISAM SELECT COUNT(*)

InnoDB
MyISAM 1/2 1/2

MySQL

target=MySQL SAM Storage Engine

InnoDB Storage Engine

20. (Object Relational Mapper)

ORM (Object Relational Mapper)

ORM Lazy Loading

ORM SQL

PHP ORM Doctrine

21. 1/2 1/2

1/2 1/2 MySQL

Apache
Apache

1/2 1/2
MySQL

HTTP

PHP mysql_pconnect()

()

Apache

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$