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Top 50 MySQL Interview Questions & Answers

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What is MySQL?

MySQL is an open source DBMS which is built, supported and distributed by MySQL AB (now acquired by Oracle)

2. What are the technical features of MySQL?

MySQL database software is a client or server system which includes

- Multithreaded SQL server supporting various client programs and libraries
- Different backend
- Wide range of application programming interfaces and
- Administrative tools.

3. Why MySQL is used?

MySQL database server is reliable, fast and very easy to use. This software can be downloaded as freeware and can be downloaded from the internet.

4. What are Heap tables?

HEAP tables are present in memory and they are used for high speed storage on temporary

basis.

- BLOB or TEXT fields are not allowed
- Only comparison operators can be used =, <,>, = >,=<
- AUTO_INCREMENT is not supported by HEAP tables
- Indexes should be NOT NULL
- 5. What is the default port for MySQL Server?

The default port for MySQL server is 3306.

- 6. What are the advantages of MySQL when compared with Oracle?
- MySQL is open source software which is available at any time and has no cost involved.
- MySQL is portable
- GUI with command prompt.
- Administration is supported using MySQL Query Browser
- 7. Differentiate between FLOAT and DOUBLE?

Following are differences for FLOAT and DOUBLE:

- Floating point numbers are stored in FLOAT with eight place accuracy and it has four bytes.
- Floating point numbers are stored in DOUBLE with accuracy of 18 places and it has eight bytes.

8. Differentiate CHAR LENGTH and LENGTH?

CHAR_LENGTH is character count whereas the LENGTH is byte count. The numbers are same for Latin characters but they are different for Unicode and other encodings.

9. How to represent ENUMs and SETs internally?

ENUMs and SETs are used to represent powers of two because of storage optimizations.

10. What is the usage of ENUMs in MySQL?

ENUM is a string object used to specify set of predefined values and that can be used during table creation.

1 Create table size(name ENUM('Small', 'Medium','L

11. Define REGEXP?

REGEXP is a pattern match in which matches pattern anywhere in the search value.

12. Difference between CHAR and VARCHAR?

Following are the differences between CHAR and VARCHAR:

- CHAR and VARCHAR types differ in storage and retrieval
- CHAR column length is fixed to the length that is declared while creating table. The length value ranges from 1 and 255
- When CHAR values are stored then they are right padded using spaces to specific length. Trailing spaces are removed when CHAR values are retrieved.

13. Give string types available for column?

The string types are:

- SET
- BLOB
- ENUM
- CHAR
- TEXT
- VARCHAR

14. How to get current MySQL version?

1 SELECT VERSION ();

is used to get the current version of MySQL.

15. What storage engines are used in MySQL?

Storage engines are called table types and data is stored in files using various techniques.

Technique involves:

- Storage mechanism
- Locking levels
- Indexing
- Capabilities and functions.

16. What are the drivers in MySQL?

Following are the drivers available in MySQL:

- PHP Driver
- JDBC Driver
- ODBC Driver
- C WRAPPER
- PYTHON Driver
- PERL Driver
- RUBY Driver
- CAP11PHP Driver
- Ado.net5.mxj

17. What does a TIMESTAMP do on UPDATE

CURRENT_TIMESTAMP data type?

TIMESTAMP column is updated with Zero when the table is created. UPDATE CURRENT_TIMESTAMP modifier updates the timestamp field to current time whenever there is a change in other fields of the table.

18. What is the difference between primary key and candidate key?

Every row of a table is identified uniquely by primary key. There is only one primary key for a table.

Primary Key is also a candidate key. By common convention, candidate key can be designated as primary and which can be used for any foreign key references.

19. How do you login to MySql using Unix shell?

We can login through this command:

[mysql dir]/bin/mysql -h hostname -u
<UserName> -p <password>

20. What does myisamchk do?

It compress the MyISAM tables, which reduces their disk or memory usage.

21. How do you control the max size of a HEAP table?

Maximum size of Heal table can be controlled by MySQL config variable called max_heap_table_size.

22. What is the difference between MyISAM Static and MyISAM Dynamic?

In MyISAM static all the fields will have fixed width. The Dynamic MyISAM table will have fields like TEXT, BLOB, etc. to accommodate the data types with various lengths.

MyISAM Static would be easier to restore in case of corruption.

23. What are federated tables?

Federated tables which allow access to the tables located on other databases on other servers.

24. What, if a table has one column defined as TIMESTAMP?

Timestamp field gets the current timestamp whenever the row gets altered.

25. What happens when the column is set to AUTO INCREMENT and if you reach maximum value in the table?

It stops incrementing. Any further inserts are going to produce an error, since the key has been used already.

26. How can we find out which auto increment was assigned on Last insert?

LAST_INSERT_ID will return the last value assigned by Auto_increment and it is not required to specify the table name.

27. How can you see all indexes defined for a table?

Indexes are defined for the table by:

SHOW INDEX FROM <tablename>;

28. What do you mean by % and _ in the LIKE statement?

% corresponds to 0 or more characters, _ is exactly one character in the LIKE statement.

29. How can we convert between Unix & MySQL timestamps?

UNIX_TIMESTAMP is the command which converts from MySQL timestamp to Unix timestamp

FROM_UNIXTIME is the command which converts from Unix timestamp to MySQL timestamp.

30. What are the column comparisons operators?

The = , <>, <=, <, >=, >, <<,>>, <=>, AND, OR, or LIKE operators are used in column comparisons in SELECT statements.

31. How can we get the number of rows affected by query?

Number of rows can be obtained by

```
1 SELECT COUNT (user_id) FROM users;
```

32. Is Mysql query is case sensitive?

No.

```
1 SELECT VERSION(), CURRENT_DATE;
2 SeLect version(), current_date;
3 seleCt vErSiOn(), current_DATE;
```

All these examples are same. It is not case sensitive.

33. What is the difference between the LIKE and REGEXP operators?

LIKE and REGEXP operators are used to express with ^ and %.

```
1 SELECT * FROM employee WHERE emp_name REGEXP "^b 2 SELECT * FROM employee WHERE emp_name LIKE "%b";
```

34. What is the difference between BLOB AND TEXT?

A BLOB is a binary large object that can hold a variable amount of data. There are four types of BLOB –

TINYBLOB

- BLOB
- MEDIUMBLOB and
- LONGBLOB

They all differ only in the maximum length of the values they can hold.

A TEXT is a case-insensitive BLOB. The four TEXT types

- TINYTEXT
- TEXT
- MEDIUMTEXT and
- LONGTEXT

They all correspond to the four BLOB types and have the same maximum lengths and storage requirements.

The only difference between BLOB and TEXT types is that sorting and comparison is performed in casesensitive for BLOB values and case-insensitive for TEXT values.

35. What is the difference between mysql_fetch_array and mysql_fetch_object?

Following are the differences between mysql_fetch_array and mysql_fetch_object:

mysql_fetch_array() -Returns a result row as an associated array or a regular array from database.

mysql_fetch_object - Returns a result row as object from database.

36. How can we run batch mode in mysql?

Following commands are used to run in batch mode:

```
1 mysql;
2 mysql mysql.out
```

37. Where MyISAM table will be stored and also give their formats of storage?

Each MylSAM table is stored on disk in three formats:

- The '.frm' file stores the table definition
- The data file has a '.MYD' (MYData) extension
- The index file has a '.MYI' (MYIndex) extension

38. What are the different tables present in MySQL?

Total 5 types of tables are present:

- MyISAM
- Heap
- Merge
- INNO DB
- ISAM

MyISAM is the default storage engine as of MySQL.

39. What is ISAM?

ISAM is abbreviated as Indexed Sequential Access Method. It was developed by IBM to store and retrieve data on secondary storage systems like tapes.

40. What is InnoDB?

InnoDB is a transaction safe storage engine developed by Innobase Oy which is a Oracle Corporation now.

41. How MySQL Optimizes DISTINCT?

DISTINCT is converted to a GROUP BY on all columns and it will be combined with ORDER BY clause.

- 1 SELECT DISTINCT t1.a FROM t1,t2 where t1.a=t2.a;
- 42. How to enter Characters as HEX Numbers?

If you want to enter characters as HEX numbers, you can enter HEX numbers with single quotes and a prefix of (X), or just prefix HEX numbers with (Ox).

A HEX number string will be automatically converted into a character string, if the expression context is a string.

43. How to display top 50 rows?

In MySql, top 50 rows are displayed by using this following query:

```
1 SELECT * FROM
2 LIMIT 0,50;
```

44. How many columns can be used for creating Index?

Maximum of 16 indexed columns can be created for any standard table.

45. What is the different between NOW() and CURRENT DATE()?

NOW () command is used to show current year, month, date with hours, minutes and seconds.

CURRENT_DATE() shows current year, month and date only.

46. What are the objects can be created using CREATE statement?

Following objects are created using CREATE statement:

- DATABASE
- EVENT
- FUNCTION
- INDEX
- PROCEDURE
- TABLE

- TRIGGER
- USER
- VIEW

47. How many TRIGGERS are allowed in MySql table?

SIX triggers are allowed in MySql table. They are as follows:

- BEFORE INSERT
- AFTER INSERT
- BEFORE UPDATE
- AFTER UPDATE
- BEFORE DELETE and
- AFTER DELETE

48. What are the nonstandard string types?

Following are Non-Standard string types:

- TINYTEXT
- TEXT
- MEDIUMTEXT
- LONGTEXT

49. What are all the Common SQL Function?

CONCAT(A, B) – Concatenates two string values to create a single string output. Often used to combine two or more fields into one single field.

FORMAT(X, D) – Formats the number X to D significant digits.

CURRDATE(), CURRTIME() – Returns the current date or time.

NOW() – Returns the current date and time as one value.

MONTH(), DAY(), YEAR(), WEEK(), WEEKDAY() -

Extracts the given data from a date value.

HOUR(), MINUTE(), SECOND() – Extracts the given data from a time value.

DATEDIFF(A, B) – Determines the difference between two dates and it is commonly used to calculate age

SUBTIMES(A, B) – Determines the difference between two times.

FROMDAYS(INT) – Converts an integer number of days into a date value.

50. Explain Access Control Lists.

An ACL (Access Control List) is a list of permissions that is associated with an object. This list is the basis for MySQL server's security model and it helps in troubleshooting problems like users not being able to connect.

MySQL keeps the ACLs (also called grant tables) cached in memory. When a user tries to authenticate or run a command, MySQL checks the authentication information and permissions against the ACLs, in a predetermined order.

MYSQL Quiz

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