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Exam : MySQL 006-002

Title : Certified MySQL 5.0 DBA Part II

1. Which of the following optimizations could be made based on data collected in the slow query log?

- A. Tune server parameters.
- B. Change the storage engines in use.
- C. Make changes to the network infrastructure.
- D. Rewrite queries to perform more efficiently.
- E. Normalize data or add indexes to the tables that the queries use.

Answer: ABDE

2. What kind of replication is supported by the MySQL server?

- A. Multiple-master replication
- B. Master to slave replication
- C. Single file based clustering
- D. MySQL doesn't support replication

Answer: B

3. When performing diagnostic functions on a server should excessive start and stop messages be looked for in the error log, and why?

- A. No, start and stop messages are of no relevance to diagnostics.
- B. Yes, because there is a bug in mysqld that can cause multiple start and stop messages to be inserted in the log.
- C. No, because they will not provide any information as to what is wrong.
- D. Yes, because they can indicate that there is something causing the server to restart unexpectedly and not due to normal startup and shutdown.

Answer: D

4. For which of the following objects can privileges be specified?

- A. Host
- B. Global
- C. Database
- D. Table
- E. Column
- F. Row

Answer: BCDE

5. How can stored routines be used to check for constraints or legality of incoming data?

- A. They can make use of the VALIDATE DEFINER setting.
- B. They can not be used to check for constraints or legality of data.
- C. They can check and only perform an action if the incoming values match a specified value.

Answer: C

6. Which of the following is/are valid reasons to consider using --skip-networking?

- A. Your server is not networked to other servers.
- B. You do not have a need for remote clients to connect.
- C. You have a need for remote clients to connect.

D. You are not going to use replication or clustering.

Answer: B

7. Assuming that the user account 'joe'@'example.com' exists, executing DROP USER 'joe'@'example.com' has the following consequences:

A. The user account will immediately be removed from the server, if no object-level privileges are in effect for that account

B. The account will be removed from the server the next time FLUSH PRIVILEGES is executed, if no object-level privileges are in effect for that account

C. The account and all associated privileges will immediately be removed from the server

D. The user account and all associated privileges will be removed from the server the next time FLUSH PRIVILEGES is executed.

Answer: C

8. Does max_connections have an affect on the number of slaves that may connect to a master?

A. No, because slaves are not really clients.

B. Yes, because each slave is effectively a connected user.

C. No, because slaves do not use the same type of connection as a regular client.

D. Yes, because if the server has too many connections, it may slow the slaves down.

Answer: B

9. Consider the following EXPLAIN output.

```
mysql> EXPLAIN SELECT Name FROM City WHERE Population > 8000000
```

```
***** 1. row *****
```

```
id: 1
```

```
select_type: SIMPLE
```

```
table: City
```

```
type: ALL
```

```
possible_keys: NULL
```

```
key: NULL
```

```
key_len: NULL
```

```
ref: NULL
```

```
rows: 4079
```

```
Extra: Using where
```

Which of the following statements are true?

A. The query cannot be optimized any better.

B. No index could be used to perform the query.

C. All 4079 rows of the table need to be examined.

D. The Name column should be indexed.

E. The Population column should be indexed.

Answer: BCE

10. The type of file system you chose may affect MySQL use and/or performance with regard to...

A. Table opening time.

B. Size limits of files.

C. Time to recover from a crash.

D. The number of users MySQL can handle.

E. The type of storage engines that can be used.

Answer: ABC

11. Which of the following statements are true regarding the structure of grant tables in new distributions?

A. They change with every upgrade.

B. They are often changed.

C. They remain the same for backwards compatibility.

Answer: B

12. Can multi-column FULLTEXT indexes be used? If so, when?

A. No, they can not be used.

B. Yes, they should be used to search multiple columns simultaneously.

C. Yes, they can be used to search either one or all of the indexed columns.

Answer: B

13. Which of the following statements are true regarding wildcards in the host name of an account specification?

A. The '%' character is used to match any number of characters or numbers

B. The '*' character is used to match any number of characters or numbers

C. The '_' character is used to match any number of characters or numbers

D. The '.' character is used to match any single character or number

E. Wildcards may be used to match any number of characters at the beginning of the host name or IP address only

F. Wildcards may be used to match any number of characters at the end of the host name or IP address only

G. Wildcards may be used to match any number of characters anywhere in the host name or IP address

Answer: AG

14. Which of the following best describes why InnoDB tables should always have primary keys and why they should be short?

A. Because InnoDB uses primary keys to locate tables, and shorter keys make quicker lookups.

B. Because InnoDB uses primary keys to locate table rows, and shorter keys make quicker lookups.

C. Because InnoDB stores pointers in a log to all the primary keys and shorter keys make this log smaller.

Answer: B

15. Which of the following best describes what the master.info file contains and how it is used?

A. It contains the values from the CHANGE MASTER statement.

B. When the slave restarts it looks for which master to use from this file.

C. It contains information about the master server, its slaves and its configuration.

D. It is used by an administrator to determine what slaves connect to the master, and other information about the master server.

Answer: AB

16. Which of the following best describes what MASTER_LOG_FILE and MASTER_LOG_POS provides?

A. The path of the log file.

B. The file to log replication actions to.

C. The masters binary log name used for replication.

D. The position in the masters binary log in which to start replication.

Answer: CD

17. Which of the following best describe the effects on performance for the dynamic-row format for MyISAM has?

A. Retrievals are more complex and slower.

B. Retrievals are less complex and are faster.

C. Rows generally take up less disk space than fixed-row format.

D. Rows generally take up more disk space than fixed-row format.

Answer: AC

18. Is it possible to tell the MySQL server to throw an error on division-by-zero rather than converting it to NULL and a warning?

A. No, it has to be done programmatically.

B. Yes, by updating a system variable.

C. Yes, there is a SQL mode that exists for that.

D. No, division-by-zero is always converted regardless of any setting.

Answer: C

19. Which of the following would be considered a good candidate table for compression?

- A. A table with data that needs only few updates in the future.
- B. A table with data that will not be updated in the future.
- C. A large table, such as those used for data warehousing.
- D. All MyISAM tables are good candidates for compression.

Answer: B

20. The stored function year_to_date is created by the 'root'@'localhost' account as follows:

```
CREATE FUNCTION year_to_date ()
```

```
RETURNS DECIMAL(10,2)
```

```
SQL SECURITY DEFINER
```

```
BEGIN
```

```
...
```

```
END;
```

Within the routine body, a number of calculations are made on data in the financials table and the calculated value is returned. The only account which can access the financials table is 'root'@'localhost'.

If a client connects with the account 'joe'@'localhost' and calls the year_to_date function, what will happen?

- A. The function will not execute, as 'joe'@'localhost' does not have access to the financials table
- B. The function will not execute as SQL SECURITY DEFINER has been specified. It would execute if instead SQL SECURITY INVOKER had been specified
- C. The function will always execute as if it was 'root'@'localhost' that invoked it since SQL SECURITY DEFINER has been specified.
- D. If the account 'joe'@'localhost' has the EXECUTE privilege on year_to_date, the function will complete successfully

Answer: D

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