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MySQL 5.0 Database Administrator Certified Professional Exam, Part I

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QUESTION 1

Which of the following statements are true regarding the InnoDB storage engine?

- A. It uses multiversioning to isolate transactions.
- B. It is not possible for deadlocks to occur.
- C. It does not isolate transactions.
- D. It is possible for deadlocks to occur.

Correct Answer: AD

29.4. The InnoDB Engine

MySQL manages query contention for InnoDB tables using multi-versioning and row-level locking. Multiversioning gives each transaction its own view of the database. This, combined with row-level locking, keeps contention to a minimum.

The result is good query concurrency even if clients are performing a mix of reads and writes. However, it's possible for deadlock to occur.

QUESTION 2

After a server crash, some InnoDB tables need to be repaired. However, when the server is restarted, auto-recover failed. How would you repair the InnoDB tables?

- A. Restart the server with the `--innodb_force_recovery` option.
- B. Execute the REPAIR TABLE command.
- C. Execute the OPTIMIZE TABLE command.

Correct Answer: A

30.4. Repairing InnoDB Tables In rare cases, the server might not start up due to failure of InnoDB auto-recovery. If that happens, use the following procedure: Restart the server with the `--innodb_force_recovery` option set to a value in the range from 1 to 6. These values indicate increasing levels of caution in avoiding a crash, and increasing levels of tolerance for possible inconsistency in the recovered tables. A good value to start with is 4. (...)

QUESTION 3

Which of the following are true with regards to the server SQL mode?

- A. The server SQL mode determines how the server should behave when performing data validation checks and interpreting different forms of syntax.
- B. The server SQL mode determines whether the server should be read-only or accept commands such as INSERT, UPDATE, etc.
- C. The default SQL mode can be set by adding a `mode=""` to the `[mysqld]` section of a server option file.



D. The SQL mode can be changed at the session level with a SET SESSION sql_mode="" command.

Correct Answer: AD

1.3. Server SQL Modes

Many operational characteristics of MySQL Server can be configured by setting the SQL mode. This mode consists of optional values that each control some aspect of query processing. By setting the SQL mode appropriately, a client

program can instruct the server how strict or forgiving to be about accepting input data, enable or disable behaviors relating to standard SQL conformance, or provide better compatibility with other database systems.

The SQL mode is controlled by means of the sql_mode system variable.

Sie können den SQL-Modus zur Laufzeit mithilfe der Anweisung SET [GLOBAL|SESSION] sql_mode='modes' zur Einstellung des Systemwertes sql_mode ändern. <http://dev.mysql.com/doc/refman/5.1/de/server-sql-mode.html>

QUESTION 4

Which of the following correctly defines dirty reads, non-repeatable reads and phantom row?

- A. A dirty read is a read by one transaction of uncommitted changes made by another transaction.
- B. A dirty read is a read by one transaction of its uncommitted changes.
- C. A non-repeatable read occurs when a transaction performs the same retrieval twice but gets a different result each time.
- D. A non-repeatable read is a row that appears where it was not visible before.
- E. A phantom is a row that appears where it was not visible before.
- F. A phantom is a read by one transaction of uncommitted changes made by another transaction.

Correct Answer: ACE

A: A dirty read occurs when a transaction is allowed to read data from a row that has been modified by another running transaction and not yet committed.

C: A non-repeatable read occurs, when during the course of a transaction, a row is retrieved twice and the values within the row differ between reads. A phantom read occurs when, in the course of a transaction, two identical queries are executed, and the collection of rows returned by the second query is different from the first. The phantom reads anomaly is a special case of Non-repeatable reads

References:

QUESTION 5

On a Unix host with the host name "sakila", where will mysqld write errors to?

- A. stdin
- B. stdout



C. sakila.out

Correct Answer: B

24.3.2. Choosing a Server Startup Method on Unix

You can invoke mysqld manually. This is usually not done except for debugging purposes. If you invoke the server this way, error messages go to the terminal by default rather than to the error log. mysqld_safe is a shell script that invokes

mysqld. The script sets up the error log, and then launches mysqld and monitors it.

If mysqld terminates abnormally, mysqld_safe restarts it.

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