

1Z0-888^{Q&As}

MySQL 5.7 Database Administrator

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QUESTION 1

You inherited a busy InnoDB OLTP Instance with 100 schemas and 100 active users per schema.

Total dataset size is 200G with an average schema size of 2G.

The data is transient and is not backed up and can be repopulated easily.

Performance and responsiveness of the DB is paramount.

The query pattern for the DB instance is split 90/10 read/write.

DB host is dedicated server with 256G RAM and 64 cores.

One of your colleagues made some recent changes to the system and users are now complaining of performance impacts.

Which four configuration file edits might your colleague have performed to cause the negative DB performance?
(Choose four.)

- A. table_open_cache = 64
- B. innodb_buffer_pool_instances=64 innodb_buffer_pool_size=200G
- C. log_bin=mysql –bin Innodb_flush_log_at_trx_commit=1
- D. sync_binlog=10
- E. innodb_flush_method=O_DIRECT
- F. max_heap_table_size = 2G tmp_table_size=2G
- G. query_cache_size = 2G query_cache_enabled=1
- H. innodb_flush_log_at_trx_commit=0

Correct Answer: ABEG

QUESTION 2

Which two statements are true about InnoDB auto-increment locking? (Choose two.)

- A. InnoDB never uses table_level locks.
- B. InnoDB always protects auto-increment updates with a table-level lock
- C. InnoDB does not use locks to enforce auto-increment uniqueness.
- D. The auto-increment lock can be a table-level lock.
- E. Some settings for innodb_autoinc_lock_mode can help reduce locking.

Correct Answer: DE

QUESTION 3

Which MySQL utility copies the master instance to a slave instance on the same host?

- A. mysqlfailover
- B. mysqldbcopy
- C. mysqlrplsync
- D. mysqlserverclone

Correct Answer: D

Reference: https://docs.oracle.com/cd/E17952_01/mysql-utilities-1.5-en/mysqlserverclone.html

QUESTION 4

The MySQL installation includes the `mysql_config_editor` utility for managing login paths stored in a `.mylogin.cnf` file.

Which two are true about the login path feature? (Choose two.)

- A. `mysql_config_editor` is the only MySQL-provided utility that can print the values stored in `.mylogin.cnf`.
- B. A `.mylogin.cnf` file can store at most one login path.
- C. It provides a FIPS-compliant keyring for storing MySQL login details.
- D. A `.mylogin.cnf` file can be edited using a text editor, such as vim or Notepad++.
- E. It is an alternative to storing the MySQL login details in a `my.cnf` file.
- F. It provides means to help avoid accidentally exposing the MySQL login details.

Correct Answer: EF

Reference: <https://dev.mysql.com/doc/refman/8.0/en/mysql-config-editor.html>

QUESTION 5

You have a MySQL replication setup and you intentionally stop the SQL thread on the slave.

```
mysql> SHOW SLAVE STATUS\G
...
Slave_IO_Running: Yes
Slave_SQL_Running: No
```

What are two reasons that you may stop the SQL thread on the slave while keeping the I/O thread running? (Choose two.)

- A. to allow the remaining events to be processed on the slave while not receiving new events from the master
- B. to allow a backup to be created under reduced load
- C. to allow for point-in-time recovery on the slave
- D. to prevent schema changes from propagating to the slave before they are validated
- E. to prevent any transaction experiencing a deadlock

Correct Answer: BC

QUESTION 6

You want to immediately stop access to a database server for remote user `mike`@`client.example.com`. This user is currently not connected to the server.

Which two actions can you take to stop any access from the user?

- A. Use `ALTER USER `mike`@`client.example.com` PASSWORD EXPIRE;`
- B. Use `REVOKE ALL PRIVILEGES FROM `mike`@`client.example.com`;`
- C. Execute the `mysql_secure_installation` command.
- D. Use `DROP USER `mike`@`client.example.com`;`
- E. Use `GRANT USAGE ON *.* TO `mike`@`client.example.com` MAX_USER_CONNECTIONS=0;`
- F. Use `ALTER USER `mike`@`client.example.com` ACCOUNT LOCK;`

Correct Answer: DE

QUESTION 7

You are installing MySQL Server 5.7 from a tarball package. You have already set up the correct PATH environment variable and configured your `/etc/my.cnf` file.

Which command will correctly prepare a data directory?

- A. `service mysqld prepare-init`
- B. `mysqld_safe --initialize ...`
- C. `mysql -u root -p`
- D. `mysqld_safe --user=mysql`
- E. `mysqld --initialize ...`

Correct Answer: E

Reference: <https://dev.mysql.com/doc/refman/5.7/en/data-directory-initialization.html>

QUESTION 8

You back up by using mysqldump.

Which configuration is required on the MySQL Server to allow point-in-time recovery?

- A. binlog_format=STATEMENT
- B. log-bin
- C. apply-log
- D. binlog_format=ROW
- E. gtid_enable

Correct Answer: B

Reference: <https://dev.mysql.com/doc/mysql-backup-excerpt/5.7/en/point-in-time-recovery.html>

QUESTION 9

You have issued this statement:

```
GRANT PROXY ON 'a' FOR 'b';
```

When user account 'b' issues a query, the query returns an access denied error.

What could have caused that error?

- A. When connecting, user account 'b' is not entering the correct password for user account 'a'.
- B. You have not set the proxy_user variable in the configuration file.
- C. User account 'b' has not been granted permission to access the data being queried.
- D. User account 'a' has not been granted permission to access the data being queried.

Correct Answer: A

When a client connects to the server, the server determines the proper account based on the user name passed by the client program and the host from which the client connects.

Reference: <https://dev.mysql.com/doc/refman/8.0/en/proxy-users.html>

QUESTION 10

```
mysql> EXPLAIN SELECT * FROM City WHERE CountryCode = 'USA'\G
*****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
```

What does the possible_keys column in this output denote?

- A. if it is possible for you to include any indexes in your query
- B. whether there are any indexes on the tables that you are querying
- C. if there are any indexes that may be used to solve this query
- D. whether you are using any indexes in your query

Correct Answer: A

QUESTION 11

You are setting up a new installation of MySQL Server 5.7 (a GA release.) You have used a ZIP or TAR package to ensure that the mysqld binary, along with its support files, such as plug-ins and error messages, now exist on the host. Assume that the default datadir exists on the host. You installed the binary in the default location (the default --basedir value) for your operating system.

Which step should you perform before defining your own databases and database tables?

- A. Execute a command with a minimal form of: mysql --initialize
- B. Register mysqld as a service that will start automatically on this host machine.
- C. Create a configuration file containing default-storage-engine=InnoDB.
- D. Set an exception in the host machine's firewall to allow external users to talk to mysqld.
- E. Create additional login accounts (so that everyone does not need to log in as root) and assign them appropriate privileges.

Correct Answer: C

QUESTION 12

Is it true that binary backups always take less space than text backups?

- A. Yes, because binary backups only contain data, and not statements required to insert data into the tables.
- B. No, because text backups can have optimizations, which make them smaller, such as updating many rows at once.
- C. No, because if InnoDB tables contain many empty pages, they could take more space than the INSERT statements.
- D. Yes, because even if InnoDB tables contain many empty pages, text backups have empty INSERT statements for them.

Correct Answer: C

QUESTION 13

A particular government's security policy is to have very strict data encryption and safety settings. This is done by restricting access based on their own CA authority and limiting access to particular users within a department. Which method could be used to restrict access as required?

- A. using GRANT ... REQUIRE X509 AND REQUIRE ISSUER '/C=.....\' AND REQUIRE SUBJECT '/C=.....\'
- B. using GRANT USAGE, X509,ON *.* TO user@remotehost IDENTIFIED BY 'secret_password'
- C. using GRANT ... REQUIRE SSL for a secure connection
- D. using GRANT USAGE, SSL,ON *.* TO user@remotehost IDENTIFIED BY 'secret_password'

Correct Answer: A

QUESTION 14

When you examine a new MySQL installation with default configuration, you find a file called ibdata1 in the database directory. Which two statements are true about this file? (Choose two.)

- A. it contains the binary log.
- B. it contains a general tablespace.
- C. it is the default location for all new tables that you create.
- D. it contains the system tablespace.
- E. it contains the redo log.
- F. it contains the undo log.

Correct Answer: CD

Reference: <https://dev.mysql.com/doc/refman/5.7/en/innodb-init-startup-configuration.html>

QUESTION 15

Assuming that a user has correct privileges, which Linux console command will fail to shut down a MySQL server?

- A. `mysqld -e '\\shutdown\\'`
- B. `service mysqld stop`
- C. `mysqladmin shutdown`
- D. `mysql -e '\\shutdown\\'`

Correct Answer: A

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