

1Z0-908^{Q&As}

MySQL 8.0 Database Administrator

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QUESTION 1

You wish to protect your MySQL database against SQL injection attacks. Which method would fail to do this?

- A. installing and configuring the Connection Control plugin
- B. avoiding concatenation of SQL statements and user-supplied values in an application
- C. using stored procedures for any database access
- D. using PREPARED STATEMENTS

Correct Answer: C

Reference: <https://www.ptsecurity.com/ww-en/analytics/knowledge-base/how-to-prevent-sql-injection-attacks/>

QUESTION 2

Which four are types of information stored in the MySQL data dictionary? (Choose four.)

- A. performance metrics
- B. table definitions
- C. access control lists
- D. view definitions
- E. server runtime configuration
- F. server configuration rollback
- G. stored procedure definitions
- H. InnoDB buffer pool LRU management data

Correct Answer: BDFG

QUESTION 3

You have replication configured, which consists of one master and one slave on different hosts with an asynchronous replication channel between them. Your goal is to decrease the amount of data that is transferred between these two hosts.

It is confirmed that the slave instance does not need to have data from the example database.

Which replication filter contributes to your goal?

- A. on slave: --replicate-wild-ignore=example.%
- B. on slave: --replicate-ignore-db=example

- C. on master: --replicate-ignore-db=example
- D. on master: --binlog-ignore-db=example
- E. on slave: --binlog-ignore-db=example

Correct Answer: C

QUESTION 4

You wish to store the username and password for a client connection to MySQL server in a file on a local file system.

Which is the best way to encrypt the file?

- A. Use the AES_ENCRYPT() MySQL function on the option file.
- B. Use mysql_secure_installation to encrypt stored login credentials.
- C. Use a text editor to create a new defaults file and encrypt it from Linux prompt.
- D. Use mysql_config_editor to create an encrypted file.

Correct Answer: D

Reference: <https://dev.mysql.com/doc/mysql-security-excerpt/5.7/en/password-security-user.html>

QUESTION 5

You must run multiple instances of MySQL Server on a single host. Which three methods are supported? (Choose three.)

- A. Run MySQL Server docker containers.
- B. Use systemd with different settings for each instance.
- C. Use system tools to lock each instance to its own CPU.
- D. Start mysqld or mysqld_safe using different option files for each instance.
- E. Run mysqld with --datadir defined for each instance.
- F. Use resource groups to lock different instances on separate CPUs.

Correct Answer: BDE

QUESTION 6

Binary log events for the `mydb1` schema must be copied to a different schema name `mydb2`. Which command will do this?

- A. `mysqlbinlog --rewrite-db='mydb1->mydb2' | mysql`

- B. `mysqlbinlog --database=mydb1 --database=mydb2 | mysql`
- C. `mysqlbinlog --rewrite-db='mydb1' --rewrite-db='mydb2' | mysql`
- D. `mysqlbinlog --read-from-remote-server --raw | sed `s/mydb1/mydb2/g` | mysql`

Correct Answer: D

QUESTION 7

The data in this instance is transient; no backup or replication will be required. It is currently under performing.

The database size is static and including indexes is 19G.

Total system memory is 32G.

After profiling the system, you highlight these MySQL status and global variables:

```
Com_rollback          | 85408355 |  
Com_commit            | 1242342  |  
InnoDB_buffer_pool_pages_free | 163840   |
```

```
[mysqld]  
buffer_pool_size=20G  
innodb_flush_log_at_trx_commit=2  
disable-log-bin
```

The OS metrics indicate that disk is a bottleneck. Other variables retain their default values.

Which three changes will provide the most benefit to the instance? (Choose three.)

- A. `innodb_flush_log_at_trx_commit=1`
- B. `buffer_pool_size=24G`
- C. `innodb_log_file_size=1G`
- D. `sync_binlog=0`
- E. `innodb_doublewrite=0`
- F. `max_connections=10000`
- G. `innodb_undo_directory=/dev/shm`

Correct Answer: ACF

Reference: <https://aws.amazon.com/blogs/database/best-practices-for-configuring-parameters-for-amazon-rds-for-mysql-part-1-parameters-related-to-performance/>

QUESTION 8

Which statement is true about MySQL Enterprise Transparent Data Encryption (TDE)?

- A. MySQL TDE uses an appropriate keyring plugin to store the keys in a centralized location.
- B. Both MyISAM and InnoDB tables can be encrypted by setting the `keyring_engine = ALL` variable in the MySQL configuration file.
- C. Lost tablespace encryption keys can be regenerated only if the master database key is known or present in the Key Vault specification.
- D. TDE can encrypt InnoDB and MyISAM tables only when the tables are stored in the SYSTEM tablespace.

Correct Answer: C

Reference: <https://www.mysql.com/products/enterprise/tde.html>

QUESTION 9

Examine this MySQL client command to connect to a remote database:

```
mysql -h remote.example.org -u root -p --protocol=TCP --ssl-mode=
```

Which two `--ssl-mode` values will ensure that an X.509-compliant certificate will be used to establish the SSL/TLS connection to MySQL?

- A. REQUIRED
- B. VERIFY_CA
- C. VERIFY_IDENTITY
- D. PREFERRED
- E. DISABLED

Correct Answer: BC

Explanation: <https://dev.mysql.com/doc/refman/5.7/en/using-encrypted-connections.html>

QUESTION 10

A valid raw backup of the `shop.customers` MyISAM table was taken.

You must restore the table. You begin with these steps:

1. Confirm that `secure_file_priv=\\'/var/tmp\\'`
2. `mysql> DROP TABLE shop.customers;`
3. `shell> cp /backup/customers.MY* /var/lib/mysql/shop/`

Which two actions are required to complete the restore? (Choose two.)

- A. shell> cp /backup/customers.sdi /var/tmp
- B. shell> cp /backup/customers.sdi /var/lib/mysql/shop/
- C. mysql> SOURCE `/var/tmp/customers.sdi`
- D. mysql> IMPORT TABLE FROM /var/tmp/customers.sdi
- E. shell> cp /backup/customers.frm /var/lib/mysql/shop/
- F. mysql> IMPORT TABLE FROM /var/lib/mysql/shop/customers.sdi
- G. mysql> ALTER TABLE shop.customers IMPORT TABLESPACE
- H. mysql> ALTER TABLE shop.customers DISCARD TABLESPACE

Correct Answer: DG

QUESTION 11

A clean shutdown was performed with innodb_fast_shutdown=0.

While you were manipulating files, all files were accidentally deleted from the top-level data directory.

Which two files must be restored from backup to allow the DB to restart cleanly? (Choose two.)

- A. ibtmp1
- B. undo_001
- C. ib_buffer_pool
- D. ibdata1
- E. mysql.ibd
- F. ib_logfile0

Correct Answer: CE

QUESTION 12

Examine this statement: mysql> DROP ROLE r_role1, r_role2; Which two are true? (Choose two.)

- A. It fails if any of the roles is specified in the mandatory_roles variable.
- B. You must revoke r_role1 and r_role2 from all users and other roles before dropping the roles.
- C. Existing connections can continue to use the roles' privileges until they reconnect.
- D. You must revoke all privileges from r_role1 and r_role2 before dropping the roles.
- E. It fails if you do not have the ADMIN OPTION of the roles r_role1 and r_role2.

F. It fails if at least one of the roles does not exist.

Correct Answer: CE

Reference: https://docs.oracle.com/cd/B12037_01/server.101/b10759/statements_8026.htm

QUESTION 13

You have just installed MySQL on Oracle Linux and adjusted your /etc/my.cnf parameters to suit your installation. Examine the output:

```
# systemctl start mysqld
Job for mysqld.service failed because the control process exited with error code. See "systemctl status mysqld.service" and
"journalctl -xe" for details.

# systemctl status mysqld.service
mysqld.service - MySQL Server
Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled)
Active: failed (Result: exit-code) since Thu 2019-12-12 07:54:53 ACDT; 33s ago
Docs: man:mysqld(8)
http://dev.mysql.com/doc/refman/en/using-systemd.html
Process: 2732 ExecStart=/usr/sbin/mysqld $MYSQLD_OPTS (code=exited, status=1/FAILURE)
Process: 2705 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
Main PID: 2732 (code=exited, status=1/FAILURE)
Status: "Server startup in progress"

Dec 12 07:54:49 oel7 systemd[1]: Starting MySQL Server...
Dec 12 07:54:53 oel7 systemd[1]: mysqld.service: main process exited, code=exited, status=1/FAILURE
Dec 12 07:54:53 oel7 systemd[1]: Failed to start MySQL Server.
Dec 12 07:54:53 oel7 systemd[1]: Unit mysqld.service entered failed state.
Dec 12 07:54:53 oel7 systemd[1]: mysqld.service failed.
```

What statement is true about the start attempt?

- A. MySQL server was not started due to a problem while executing process 2732.
- B. MySQL server continued to start up even though another process existed.
- C. systemd found the mysqld service disabled and failed to start it.
- D. systemd waited for 30 seconds before timing out and start up failed.
- E. systemd attempted to start mysqld, found another systemd mysqld process running, and shut it down.

Correct Answer: E

QUESTION 14

All MySQL Server instances belonging to InnoDB Cluster have SSL configured and enabled.

You must configure InnoDB Cluster to use SSL for group communication.

Which two statements are true? (Choose two.)

- A. SSL group communication must be enabled at cluster creation time by specifying createCluster ({memberSslMode: \\REQUIRED\\}).
- B. Configuring SSL group communication also configures SSL distributed recovery.
- C. An existing InnoDB Cluster must be dissolved and created from scratch to enable SSL for group communication.

D. SSL group communication can be enabled for an existing cluster, one instance at time, by setting group_replication_ssl_mode.

E. If only some InnoDB Cluster members are enabled for SSL group communication, and --ssl-mode=PREFERRED, communication will fall back to unencrypted connection.

F. SSL group communication requires the use of an additional set of parameters group_replication_recovery_*.

Correct Answer: AF

QUESTION 15

Examine this SQL statement:

```
UPDATE world.city
SET Population = Population * 1.1
WHERE CountryCode IN (SELECT Code FROM world.country
                      WHERE Continent = 'Asia')
```

Which set of privileges will allow Tom to execute this SQL statement?

- A. GRANT ALL PRIVILEGES ON `world`.`city` TO `tom`@\%; GRANT SELECT (`code`) ON `world`.`country` TO `tom`@\%;
- B. GRANT UPDATE ON `world`.* TO `tom`@\%; GRANT ALL PRIVILEGES ON `world`.`country` TO `tom`@\%;
- C. GRANT UPDATE ON `world`.`city` TO `tom`@\%; GRANT SELECT ON `world`.* TO `tom`@\%;
- D. GRANT UPDATE ON `world`.`city` TO `tom`@\%; GRANT SELECT ON `world`.`country` TO `tom`@\%;

Correct Answer: D

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