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MySQL 8.0 Database Administrator

Oracle 1z0-908

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QUESTION NO: 1

Which three settings control global buffers shared by all threads on a MySQL server? (Choose three.)

- A. `sort_buffer_size`
- B. `key_buffer_size`
- C. `table_open_cache`
- D. `read_buffer_size`
- E. `innodb_buffer_pool_size`
- F. `tmp_table_size`

ANSWER: A B F

Explanation:

Reference: https://docs.oracle.com/cd/E17952_01/mysql-5.7-en/server-system-variables.html

QUESTION NO: 2

Which statement is true about cold backups?

- A. They are backups taken from snapshots of a running database.
- B. They are backups taken from OS copy commands.
- C. They are good to use if only data structures must be backed up but not log files.
- D. They are good to use when many users are online accessing the database.

ANSWER: A

QUESTION NO: 3

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

ANSWER: D G

QUESTION NO: 4

Examine this command and output:

```
mysql> SHOW GLOBAL STATUS LIKE 'Firewall%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| Firewall_access_denied | 7 |
| Firewall_access_granted | 4 |
| Firewall_access_suspicious | 3 |
| Firewall_cached_entries | 11 |
+-----+-----+
```

Which statement is true?

- A. Firewall_cached_entries is the number of statements found in the query cache for users in DETECTING mode.
- B. Firewall_access_denied is the number of connection attempts from prohibited hosts that are denied.
- C. Firewall_access_suspicious is the number of statements logged as suspicious for users in DETECTING mode.
- D. Firewall_access_granted is the number of connections granted from whitelisted hosts.

ANSWER: C

QUESTION NO: 5

On examination, your MySQL installation datadir has become recursively world read/write/executable.

What are two major concerns of running an installation with incorrect file privileges? (Choose two.)

- A. Users could overwrite configuration files.
- B. Data files could be deleted.
- C. SQL injections could be used to insert bad data into the database.
- D. MySQL binaries could be damaged, deleted, or altered.
- E. Extra startup time would be required for the MySQL server to reset the privileges.

ANSWER: B E

QUESTION NO: 6

You are having performance issues with MySQL instances. Those servers are monitored with MySQL Enterprise Monitor.

Using Query Analyzer, where do you begin to look for problem queries?

- A. Sort the "Exec" column and check for SQL queries with low Query Response Time index (QRTi) values.
- B. Look for queries with low total latency times in the Latency section in the times series graph.
- C. Look for queries with big prolonged spikes in row activity/access graph in the times series graph.
- D. Sort the "Exec" column and check for SQL queries with high Query Response Time index (QRTi) values.

ANSWER: C

QUESTION NO: 7

Examine this query and output:

```
mysql> EXPLAIN ANALYZE
SELECT city.CountryCode, country.Name AS Country_Name,
       city.Name, city.District, city.Population
FROM world.city
      INNER JOIN world.country ON country.Code = city.CountryCode
WHERE country.Continent = 'Asia'
      AND city.Population > 1000000
ORDER BY city.Population DESC\G

***** 1. row *****
EXPLAIN:
-> Sort: <temporary>.Population DESC (actual time=8.306..8.431 rows=125 loops=1)
  -> Stream results (actual time=0.145..8.033 rows=125 loops=1)
    -> Nested loop inner join (cost=241.12 rows=205) (actual time=0.141..7.787 rows=125 loops=1)
      -> Filter: (world.country.Continent = 'Asia') (cost=25.40 rows=34) (actual time=0.064..0.820 rows=51 loops=1)
        -> Table scan on country (cost=25.40 rows=239) (actual time=0.059..0.359 rows=239 loops=1)
          -> Filter: (world.city.Population > 1000000) (cost=4.53 rows=6) (actual time=0.030..0.131 rows=2 loops=51)
            -> Index lookup on city using CountryCode (CountryCode=world.country.`Code`) (cost=4.53 rows=18) (actual
time=0.023..0.096 rows=35 loops=51)

1 row in set (0.0094 sec)
```

Which two statements are true? (Choose two.)

- A. The country table is accessed as the first table, and then joined to the city table.
- B. It takes more than 8 milliseconds to sort the rows.
- C. The optimizer estimates that 51 rows in the country table have Continent = 'Asia'.
- D. 35 rows from the city table are included in the result.
- E. The query returns exactly 125 rows.

ANSWER: C D

QUESTION NO: 8

Your MySQL environment has asynchronous position based-replication with one master and one slave.

The slave instance had a disk I/O problem, so it was stopped.

You determined that the slave relay log files were corrupted and unusable, but no other files are damaged.

You restart MySQL Server.

How can replication be restored?

- A. The slave relay logs should be deleted; then execute START SLAVE;
- B. The relay logs from the master should be used to replace the corrupted relay logs.
- C. The slave relay logs should be deleted; execute CHANGE MASTER to adjust the replication relay log file name, then issue start SLAVE;
- D. The slave needs to be restored from backup.

ANSWER: B

QUESTION NO: 9

Examine this command, which executes successfully:

```
$ mysqlrouter --bootstrap user@hostname:port --directory=directory_path
```

Which activity is performed?

- A. MySQL Router is configured based on the information in files in directory_path.
- B. MySQL Router configures itself based on the information retrieved from the InnoDB cluster metadata server.
- C. MySQL Router is restarted.
- D. MySQL Router configures all the cluster nodes based on the information retrieved from the InnoDB cluster metadata server.

ANSWER: B

Explanation:

Reference: <https://dev.mysql.com/doc/mysql-router/8.0/en/mysqlrouter.html>

QUESTION NO: 10

Which two methods allow a DBA to reset a user's password? (Choose two.)

- A. ALTER USER statement
- B. mysql_secure_installation utility
- C. SET PASSWORD statement
- D. mysqladmin client program
- E. GRANT statement

ANSWER: A C