



# 1Z0-908<sup>Q&As</sup>

MySQL 8.0 Database Administrator

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## QUESTION 1

You plan to install MySQL Server by using the RPM download. Which two statements are true? (Choose two.)

- A. You can provide the root password interactively.
- B. You must manually initialize the data directory.
- C. The MySQL RPM package installation supports deploying multiple MySQL versions on the same host.
- D. MySQL uses the RPM relocatable installation target feature.
- E. The functionality is split among several RPM package files.
- F. You can find the root password in the error log after the first start.

Correct Answer: CF

Reference: <https://dev.mysql.com/doc/refman/8.0/en/linux-installation-rpm.html>

## QUESTION 2

You have upgraded the MySQL binaries from 5.7.28 to 8.0.18 by using an in-place upgrade. Examine the message sequence generated during the first start of MySQL 8.0.18:

```
... [System] ... /usr/sbin/mysqld (mysqld 8.0.18-commercial) starting as process 2754
... [System] ... Starting upgrade of data directory.
... [ERROR] ... Table upgrade required. Please do "REPAIR TABLE `columns_priv`" or dump/reload to fix it!
... [ERROR] ... Table upgrade required. Please do "REPAIR TABLE `event`" or dump/reload to fix it!
... [ERROR] ... Table upgrade required. Please do "REPAIR TABLE `proc`" or dump/reload to fix it!
... [ERROR] ... Table upgrade required. Please do "REPAIR TABLE `proxies_priv`" or dump/reload to fix it!
... [ERROR] ... Table upgrade required. Please do "REPAIR TABLE `tables_priv`" or dump/reload to fix it!
... [ERROR] ... Failed to open mysql.event Table.
... [ERROR] ... Failed to open mysql.proc Table.
... [ERROR] ... Failed to Populate DD tables.
... [ERROR] ... Aborting
... [System] ... /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.18-commercial) MySQL Enterprise Server -
Commercial.
```

Which step or set of steps will resolve the errors?

- A. Remove the redo logs. Replace the MySQL binaries with the 5.7.28 binaries. Prepare the tables for upgrade. Upgrade to 8.0.18 again.
- B. Execute: `mysqlcheck --check-upgrade mysql columns_priv event proc proxies_priv tables_priv`.
- C. Start `mysqld` again using the `--upgrade=FORCE` option.
- D. Execute: `mysqlcheck --repair mysql columns_priv event proc proxies_priv tables_priv`.
- E. Go to the `/mysql` directory and execute: `mysiamchk --update-state columns_priv event proc proxies_priv tables_priv`.

Correct Answer: C



### QUESTION 3

Examine this command, which executes successfully:

```
shell> mysqldump --master-data=2 --single-transaction --result-file=dump.sql mydb
```

Which two statements are true? (Choose two.)

- A. It executes flush tables with read lock.
- B. It enforces consistent backups for all storage engines.
- C. The backup created is a consistent data dump.
- D. This option uses the READ COMMITTED transaction isolation mode.
- E. It is a cold backup.

Correct Answer: AD

Reference: [https://dev.mysql.com/doc/refman/5.7/en/mysqldump.html#option\\_mysqldump\\_single-transaction](https://dev.mysql.com/doc/refman/5.7/en/mysqldump.html#option_mysqldump_single-transaction)

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### QUESTION 4

What is the correct syntax for using transparent data encryption with an existing InnoDB table?

- A. ALTER TABLE t1 ADD ENCRYPTED\_TABLESPACE = 'Y';
- B. ALTER TABLE t1 ENCRYPTION='Y';
- C. ALTER TABLE t1 WITH ENCRYPTION USING MASTER KEY;
- D. ALTER TABLE t1 SET TDE = 'ON';

Correct Answer: A

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### QUESTION 5

Which two statements are true about raw binary backups? (Choose two.)

- A. They are converted to a highly compressible binary format.
- B. The data format is identical to how MySQL stores the data on disk.
- C. They are required to obtain FIPS security compliance.
- D. The resulting files are easily human readable.
- E. They are faster than logical backups because the process is a simple file or file system copy.

Correct Answer: BD

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## QUESTION 6

You have an installation of MySQL 8 on Oracle Linux.

Consider the outputs: Which statement is true about disk temporary tables for this installation?

```
mysql> SHOW GLOBAL VARIABLES
  WHERE Variable_name = 'tmpdir'
  OR Variable_name = 'tmp_table_size';
+-----+-----+
| Variable_name | Value      |
+-----+-----+
| tmp_table_size | 16777216  |
| tmpdir         | /tmp      |
+-----+-----+
2 rows in set (0.01 sec)

shell> cd /var/lib/mysql
shell> ls -l | grep temp
drwxr-x---. 2 mysql mysql 4096 Dec 11 14:05 #innodb_temp
```

- A. Only internal temporary tables from the optimizer will be created in tmpdir.
- B. Temporary tables will use the InnoDB temporary tablespace located in datadir.
- C. Temporary tables are created in tmpdir only if configured to use MyISAM.
- D. Temporary tables are created in tmpdir only after they reach tmp\_table\_size.
- E. Temporary tables will use the InnoDB temporary tablespace located in /tmp.

Correct Answer: A

## QUESTION 7

Examine these InnoDB Cluster parameter settings:

```
cluster.setInstanceOption('host1:3377', 'memberWeight', 40)
cluster.setInstanceOption('host2:3377', 'memberWeight', 30)
cluster.setInstanceOption('host3:3377', 'memberWeight', 40)
cluster.setInstanceOption('host3:3377', 'exitStateAction', "ABORT_SERVER")
cluster.setOption("expelTimeout", 1)
```



Now examine the partial status:

```
"topology": {
  "host1:3377": {
    "address": "host1:3377",
    "mode": "R/O",
    [...]
    "status": "ONLINE",
    "version": "8.0.18"
  },
  "host2:3377": {
    "address": "host2:3377",
    "mode": "R/O",
    [...]
    "status": "ONLINE",
    "version": "8.0.18"
  },
  "host3:3377": {
    "address": "host3:3377",
    "mode": "R/W",
    [...]
    "status": "ONLINE",
    "version": "8.0.18"
  }
}
```

A permanent network failure isolates host3.

Which two statements are true? (Choose two.)

- A. The instance deployed on host2 is elected as the new primary instance.
- B. The instance deployed on host3 is expelled from the cluster and must be rejoined using `cluster.addInstance(\host3:3377\)`
- C. The instance deployed on host3 will automatically rejoin the cluster when connectivity is re-established.
- D. Failure of the instance deployed on host1 provokes an outage.
- E. The issuing command `cluster.switchToMultiPrimaryMode()` will fail to enable multi- primary mode.
- F. The primary instance can be specified by using the command `cluster.setPrimaryInstance(:)`.

Correct Answer: CF

## QUESTION 8

You recently upgraded your MySQL installation to MySQL 8.0.



Examine this client error:

```
ERROR 2059 (HY000): Authentication plugin 'caching_sha2_password' cannot be loaded: /use/local/mysql/lib/plugin/caching_sha2_password.so: cannot open shared object file: No such file or directory
```

Which option will allow this client to connect to MySQL Server?

- A. [mysqld] default\_authentication\_plugin=sha256\_password
- B. ALTER USER user IDENTIFIED WITH mysql\_native\_password BY \\password\\;
- C. [mysqld] default\_authentication\_plugin=caching\_sha2\_password
- D. ALTER USER user IDENTIFIED WITH caching\_sha2\_password BY \\password\\;
- E. ALTER USER user IDENTIFIED WITH sha256\_password BY \\password\\;
- F. [mysqld] default\_authentication\_plugin=mysql\_native\_password

Correct Answer: E

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### QUESTION 9

You want to check the values of the sort\_buffer\_size session variables of all existing connections. Which performance\_schema table can you query?

- A. user\_variables\_by\_thread
- B. global\_variables
- C. variables\_by\_thread
- D. session\_variables

Correct Answer: D

Reference: <https://dev.mysql.com/worklog/task/?id=6629>

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### QUESTION 10

Examine these commands and output:



```
mysql> SHOW FULL PROCESSLIST;
```

Id	User	State	Info
6	event_scheduler	Waiting on empty queue	NULL
20	root		NULL
21	root		NULL
22	root	Waiting for table metadata lock	optimize table test.demo_test
24	root	Waiting for table metadata lock	select * from test.demo_test
25	root	starting	SHOW FULL PROCESSLIST

```
mysql> SELECT object_type, object_schema, object_name, lock_type, lock_status, owner_thread_id, owner_event_id
-> FROM performance_schema.metadata_locks WHERE object_schema != 'performance_schema';
```

OBJECT_TYPE	OBJECT_SCHEMA	OBJECT_NAME	LOCK_TYPE	LOCK_STATUS	OWNER_THREAD_ID	OWNER_EVENT_ID
TABLE	test	demo_test	SHARED_READ	GRANTED	60	7
TABLE	test	demo_test	SHARED_WRITE	GRANTED	60	9
SCHEMA	test	NULL	INTENTION_EXCLUSIVE	GRANTED	62	6
TABLE	test	demo_test	SHARED_NO_READ_WRITE	PENDING	62	6

```
mysql> SELECT thread_id, processlist_id, processlist_user, parent_thread_id
-> FROM performance_schema.threads WHERE processlist_user='root';
```

THREAD_ID	PROCESSLIST_ID	PROCESSLIST_USER	PARENT_THREAD_ID
60	20	root	NULL
61	21	root	NULL
62	22	root	1
64	24	root	1
65	25	root	NULL

Which connection ID is holding the metadata lock?

- A. 20
- B. 24
- C. 21
- D. 25
- E. 22
- F. 6

Correct Answer: D

**QUESTION 11**

Examine the modified output:

```
mysql> SHOW SLAVE STATUS\G
***** 1. row *****
      Slave_IO_Running: Yes
      Slave_SQL_Running: Yes
      Seconds_Behind_Master: 1612
```

Seconds\_Behind\_Master value is steadily growing. What are two possible causes? (Choose two.)

- A. The master is most probably too busy to transmit data and the slave needs to wait for more data.



- B. One or more large tables do not have primary keys.
- C. This value shows only I/O latency and is not indicative of the size of the transaction queue.
- D. The master is producing a large volume of events in parallel but the slave is processing them serially.
- E. The parallel slave threads are experiencing lock contention.

Correct Answer: CD

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#### QUESTION 12

Which statement is true about displaying and retrieving data with MySQL Enterprise Monitor Query Analyzer?

- A. The Query Analyzer graph view range selector can extend to cover the same hour over multiple days.
- B. It is possible to filter a Query Analyzer view graph by database and by table.
- C. The Query Analyzer can plot a CPU utilization graph for remote hosts with a MySQL Enterprise Service Manager's built-in Agent installation.
- D. It is possible to export statements included in a graph selection in CSV format.

Correct Answer: D

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#### QUESTION 13

Which three requirements must be enabled for group replication? (Choose three.)

- A. slave updates logging
- B. semi-sync replication plugin
- C. primary key or primary key equivalent on every table
- D. binary log checksum
- E. binary log ROW format
- F. binary log MIXED format
- G. replication filters

Correct Answer: BCF

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#### QUESTION 14

Examine this MySQL Shell command:

```
dba.rebootClusterFromCompleteOutage()
```





Which two statements are true? (Choose two.)

- A. It reconfigures InnoDB Cluster if the cluster was stopped.
- B. It performs InnoDB Cluster instances rolling restart.
- C. It only starts all InnoDB Cluster instances.
- D. It is not mandatory that all instances are running and reachable before running the command.
- E. It stops and restarts all InnoDB Cluster instances and initializes the metadata.
- F. It only stops and restarts all InnoDB Cluster instances.
- G. It picks the minimum number of instances necessary to rebuild the quorum and reconfigures InnoDB Cluster.

Correct Answer: BD

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#### QUESTION 15

How can mysql\_multi be configured to allow MySQL instances to use the same port number?

- A. The instances use different user accounts unique to each instance.
- B. The instances listen on different IP addresses.
- C. The instances use different socket names.
- D. The instances have appropriate net masks set.

Correct Answer: B

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