

1Z0-888^{Q&As}

MySQL 5.7 Database Administrator

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QUESTION 1

An existing master-slave setup is currently using a delayed replication of one hour. The master has crashed and the slave must be "rolled forward" to provide all the latest data.

The SHOW SLAVE STATUS indicates these values: RELAY_LOG_FILE=hostname-relay-bin.00004
RELAY_LOG_POS=1383

Which command set would make the slave current?

- A. STOP SLAVE; SET GLOBAL master_delay=0; START SLAVE;
- B. STOP SLAVE; CHANGE MASTER TO RELAY_LOG_FILE = `hostname-relay-bin.00004\`, RELAY_LOG_POS = 1383;
- C. STOP SLAVE; CHANGE MASTER TO MASTER_DELAY=0; START SLAVE;
- D. STOP SLAVE; CHANGE MASTER TO MASTER_DELAY=0; RELAY_LOG_FILE = `hostname-relaybin.00004\`, RELAY_LOG_POS = 1383;

Correct Answer: C

QUESTION 2

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 3

You have a server that has very limited memory but has a very large table.

You will use mysqldump to back up this table.

Which option will ensure mysqldump will process a row at a time instead of buffering a set of rows?

- A. --tab
- B. --single-transaction

C. --quick

D. --skip-buffer

Correct Answer: C

Reference: <http://dev.mysql.com/doc/refman/4.1/en/mysqldump.html>

QUESTION 4

Which two are considered good security practices when using passwords? (Choose two.)

A. Use one-way encryption for storage of passwords.

B. Store passwords external to the database.

C. Choose short passwords to save on storage space.

D. Use simple keyboard actions that give mixed letters.

E. Do not use dictionary-based words.

Correct Answer: AE

Reference: <https://stackoverflow.com/questions/14798275/best-way-to-store-passwords-in-mysqldatabase>

QUESTION 5

The /myfolder/my.cnf file has option set:

```
[mysqld]
```

```
skip-log-bin
```

/myfolder2/my.cnf has this option set:

```
[mysqld]
```

```
log-bin = /valid/path/to/mysqlbinlog
```

All mentioned paths are accessible to the account that you are currently using. Assume that any other options mentioned in either file are valid and legal option definitions.

You start an instance by using this command line:

```
mysqld --defaults-file=/myfolder/my.cnf --defaults-extra-file=/myfolder2/my.cnf
```

What is the outcome?

A. MySQL starts and Binary Logging is enabled.

B. MySQL fails to start due to the conflicting options in the configuration files.

C. MySQL fails to start due to conflicting options on the command line.

D. MySQL starts but Binary Logging is disabled.

Correct Answer: C

QUESTION 6

You are investigating the performance of the server and see this information:

events_waits_summary_global_by_event_name in the Performance Schema shows that the wait/synch/mutex/sql/LOCK_table_cache event is dominating other wait events.

The Table_open_cache_overflows status variable is 0.

Which action should be taken to remove the performance bottleneck described here?

A. Increase the value of table_open_cache_instances.

B. Decrease the value of table_definition_cache.

C. Decrease the value of table_open_cache.

D. Increase the value of table_definition_cache.

E. Increase the value of table_open_cache.

F. Decrease the value of table_open_cache instances.

Correct Answer: A

QUESTION 7

You created a backup of the world database with this command: shell> mysqldump --opt world > dump.sql

Which two will import the data from dump.sql? (Choose two.)

A. shell> mysqladmin recover test dump.sql

B. shell> mysql test

C. shell> mysqlimport test dump.sql

D. mysql> USE test; mysql> LOAD DATA INFILE `dump.sql`;

E. mysql>USE test; mysql>SOURCE dump.sql;

Correct Answer: CD

QUESTION 8

A single InnoDB table has been dropped by accident. You are unable to use an additional intermediate MySQL instance to restore the table. Which two backup methods can be used to restore the single table without stopping the MySQL instance? (Choose two.)

- A. a backup created with `mysqldump --all-databases`
- B. a backup created using `FLUSH TABLES ... FOR EXPORT`
- C. an up-to-date replication slave
- D. a file system-level snapshot
- E. a file system copy created while MySQL was shut down.

Correct Answer: AD

QUESTION 9

Which statement best describes a "warm" backup?

- A. It is similar to a "cold" backup, but differs in that it permits write operations.
- B. It backs up the binary log, which contains the most recent "warm" changes.
- C. It is similar to a "hot" backup, but differs in that it does not permit write operations.
- D. It only backs up "warm" data, that is, data that has been recently modified.

Correct Answer: D

A warm backup site is already stocked with hardware representing a reasonable facsimile of that found in your data center. To restore service, the last backups from your off-site storage facility must be delivered, and bare metal restoration completed, before the real work of recovery can begin.

Reference: https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/4/html/introduction_to_system_administration/s2-disaster-recovery-sites

QUESTION 10

Recently, users on mostly-write MySQL database have been complaining of slowdowns or stalls in their applications.

Which option is most likely to have a positive effect on the server's health and performance?

- A. Reduce the size of redo logs to improve storage efficiency.
- B. Increase the size of redo logs.
- C. Lower `innodb_max_dirty_pages_pct` to flush more often.

D. Move redo logs to /dev/shm to improve their speed.

Correct Answer: C

Reference:https://books.google.com.pk/books?id=QWOZBAAAQBAJandpg=PT179andlpg=PT179anddq=Lower+innodb_max_dirty_pages_pct+to+flush+more+often.andsource=blandots=FwmB-8zI9Mandsig=ACfU3U0zLNCENrOcvMfEALc4pPxiOj81Qandhl=enandsa=Xandved=2ahUKEwiGk4iv0KnpAhWjzYUKHS54CK0Q6AEwAHoECAoQAQ#v=onepageandq=mysqlandf=false

QUESTION 11

Consider a replication setup where a snapshot of the replication status shows: Which statement is true?

```
mysql> SELECT CHANNEL_NAME, SERVICE_STATE, LAST_HEARTBEAT_TIMESTAMP,
RECEIVED_TRANSACTION_SET
FROM performance_schema.replication_connection_status;
+-----+-----+-----+-----+
| CHANNEL_NAME | SERVICE_STATE | LAST_HEARTBEAT_TIMESTAMP | RECEIVED_TRANSACTION_SET |
+-----+-----+-----+-----+
| melbourne   | ON            | 2018-05-08 14:39:50      | aa23540f-5272-11e8-8816-08002715584a:61054-148465 |
| sydney      | ON            | 2018-05-08 14:55:01      | 4ab8feff-5272-11e8-9320-08002715584a:93604-201574 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT CHANNEL_NAME, WORKER_ID, THREAD_ID, SERVICE_STATE, LAST_SEEN_TRANSACTION
FROM performance_schema.replication_applier_status_by_worker;
+-----+-----+-----+-----+-----+
| CHANNEL_NAME | WORKER_ID | THREAD_ID | SERVICE_STATE | LAST_SEEN_TRANSACTION |
+-----+-----+-----+-----+-----+
| melbourne   | 1         | 29        | ON            | aa23540f-5272-11e8-8816-08002715584a:128088 |
| melbourne   | 2         | 33        | ON            | aa23540f-5272-11e8-8816-08002715584a:128089 |
| melbourne   | 3         | 35        | ON            | aa23540f-5272-11e8-8816-08002715584a:128090 |
| melbourne   | 4         | 37        | ON            | aa23540f-5272-11e8-8816-08002715584a:128087 |
| sydney      | 1         | 30        | ON            | 4ab8feff-5272-11e8-9320-08002715584a:201573 |
| sydney      | 2         | 32        | ON            | 4ab8feff-5272-11e8-9320-08002715584a:201574 |
| sydney      | 3         | 34        | ON            | 4ab8feff-5272-11e8-9320-08002715584a:201570 |
| sydney      | 4         | 36        | ON            | 4ab8feff-5272-11e8-9320-08002715584a:201513 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

A. The melbourne channel is resolving a GTID conflict.

- B. The sydney channel is keeping up with the received events.
- C. The melbourne channel is keeping up with the received events.
- D. The last event received from the sydney channel was at 2018-05-08 14:55:01.
- E. The replication slave uses multisource replication with eight sources.

Correct Answer: E

QUESTION 12

Which statement is true about using Microsoft Windows Cluster as a platform for MySQL?

- A. It relies on the shared disk architecture being visible to both servers.
- B. It is provided by means of IP-level disk replication.
- C. It implements High Availability by using the .NET Connector's load balancing capabilities.
- D. It is a shared-nothing architecture.

Correct Answer: A

QUESTION 13

Which three are key advantages of standard MySQL replication? (Choose three.)

- A. supports native automatic failover
- B. enables automatic resync of databases when discrepancies are detected
- C. provides arbitrary geographic redundancy with minimal overhead to master
- D. synchronously guarantees identical slave copy
- E. is easy to configure and has low performance overhead
- F. can easily add slaves for read scaling

Correct Answer: BEF

QUESTION 14

Which two methods will provide the total number of partitions on a table? (Choose two.)

- A. Query the INFORMATION_SCHEMA.PARTITIONS table
- B. Use the command: SHOW TABLE STATUS
- C. Query the performance_schema.objects_summary_global_by_type table

D. Query the INFORMATION_SCHEMA.TABLES table for the partition_count

E. Use the command: SHOW CREATE TABLE

Correct Answer: AB

Reference: <https://dev.mysql.com/doc/refman/5.7/en/partitions-table.html> <https://dev.mysql.com/doc/refman/8.0/en/show-table-status.html>

QUESTION 15

Consider the key buffer in a MySQL server. Which two statements are true about this feature? (Choose two.)

A. It caches index blocks for MyISAM tables only.

B. It caches index blocks for all storage engine tables.

C. It is a global buffer.

D. It is set on a per-connection basis.

E. It caches index blocks for InnoDB tables only.

Correct Answer: AD

Reference: <https://stackoverflow.com/questions/3663515/mysql-what-is-the-key-buffer>

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