

# 1Z0-888<sup>Q&As</sup>

MySQL 5.7 Database Administrator

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### QUESTION 1

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>

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### QUESTION 2

Which statement is correct about how InnoDB storage engine uses disk space?

- A. It stores data in .MYD files and its index and undo information in the common tablespace.
- B. It stores data in .MYD files, index information in .MYI files, and undo information the common tablespace.
- C. It stores its data in tablespace file(s). Index and data dictionary details are stored in .FRM files.
- D. It stores its data, index and undo information in .MYD and .MYI files.
- E. It stores data, index and undo information in tablespace file(s).

Correct Answer: E

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### QUESTION 3

What are two benefits of using the --tab option with mysqldump? (Choose two.)

- A. The schema and data are automatically dumped to separate files.
- B. It is possible to restore the data in parallel.
- C. It can be used together with --all-databases.
- D. It can be piped directly into a running server.

Correct Answer: BC

Reference: [https://books.google.com.pk/books?id=zWY9DwAAQBAJandpg=PA265andlpg=PA265anddq=it+is+possibl+e+to+restore+the+data+in+parallel.+mysqldumpandsource=blandots=jDXNfTRCeDandsig=ACfU3U3Iok36Kbw6pwL\\_23pTk0yibOwBQandhl=enandsa=Xandved=2ahUKEwix8JyF6avpAhVCyhoKHXMCCKAQ6AEwA3](https://books.google.com.pk/books?id=zWY9DwAAQBAJandpg=PA265andlpg=PA265anddq=it+is+possibl+e+to+restore+the+data+in+parallel.+mysqldumpandsource=blandots=jDXNfTRCeDandsig=ACfU3U3Iok36Kbw6pwL_23pTk0yibOwBQandhl=enandsa=Xandved=2ahUKEwix8JyF6avpAhVCyhoKHXMCCKAQ6AEwA3)

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oECAoQAQ#v=onepageandq=it%20is%20possible%20to%20restore%20the%20data%20in%20parallel.%20mysqldumpandf=false <https://dev.mysql.com/doc/refman/8.0/en/mysqldump.html>

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#### QUESTION 4

The InnoDB tablespace is corrupted and you start the server with option `--innodb_force_recover=4`. Which backup method would you use to reload the corrupted InnoDB tables?

- A. a binary backup that uses transportable tablespaces and allows you to reload a corrupted table
- B. A text backup. A binary backup will still contain the corrupted segments.
- C. A text backup. InnoDB does not allow you to make binary backups while the server is running.
- D. a binary backup taken with MySQL Enterprise Backup that can back up even corrupted tables

Correct Answer: C

An `innodb_force_recovery` setting of 4 or greater places InnoDB in read-only mode. Reference: <https://dev.mysql.com/doc/refman/8.0/en/forcing-innodb-recovery.html>

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#### QUESTION 5

Which two statements can be used to adjust the `sort_buffer_size` variable on a running MySQL server? (Choose two.)

- A. `mysql> SET GLOBAL sort_buffer_size=256000;`
- B. `mysql> SET SESSION sort_buffer_size=256000;`
- C. `mysql> CONF T; do global sort_buffer_size=256000;`
- D. `mysql> system sort_buffer_size=256000;`
- E. `mysql> SET VARIABLE sort_buffer_size=256000;`

Correct Answer: AB

`SET GLOBAL sort_buffer_size = 1000000, SESSION sort_buffer_size = 1000000;`  
Reference: <https://dev.mysql.com/doc/refman/5.7/en/set-variable.html>

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#### QUESTION 6

The MySQL user ``adam\`` currently has USAGE permissions to the database.

The football database is transactional and has non-stop updates from application users. The ``adam\`` user needs to be able to take consistent backups of the football database by using the `?single-transaction` option.

Which extra GRANT permissions are required for adam to take mysqldump backups?

- A. The ``adam\`` user must also have SINGLE TRANSACTION global grant to take a consistent backup.

- B. The `adam\` user needs the PROCESS privilege to be able to take a consistent backup while other users are connected.
- C. The `adam\` user must have the SUPER privilege in order to take data backups.
- D. The `adam\` user must also have SELECT on the football database for backup to work.

Correct Answer: C

### QUESTION 7

You are using GTIDS in replication. You need to skip a transaction with the GTID of aaa-bbb-ccc-dddeee:3 on a slave.

Which procedure would you execute from a MySQL prompt?

- A. 

```
STOP SLAVE;  
SET GLOBAL SQL_SLAVE_SKIP_COUNTER=1;  
START SLAVE;
```
- B. 

```
STOP SLAVE;  
SET GTID_NEXT='aaa-bbb-ccc-ddd-eee:3';  
BEGIN;  
COMMIT;  
SET GTID_NEXT='AUTOMATIC';  
START SLAVE
```
- C. 

```
STOP SLAVE;  
RESET SLAVE;  
BEGIN;  
SKIP NEXT GTID;  
COMMIT;  
START SLAVE;
```
- D. 

```
STOP SLAVE;  
BEGIN;  
SET GTID_IGNORE='aaa-bbb-ccc-ddd-eee:3';  
COMMIT;  
START SLAVE;
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

**QUESTION 8**

Which two statements are true regarding the creating of new MySQL physical and logical backups? (Choose two.)

- A. Physical backups can be used to recover from data corruption.
- B. Logical backups are human-readable whereas physical backups are not.
- C. Logical backups are always larger than physical backups.
- D. Physical backups are usually slower than text backups.
- E. Physical backups are usually faster than text backups.

Correct Answer: AE

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**QUESTION 9**

A crucial database, `db\_prod`, just disappeared from your production MySQL instance.

In reviewing the available MySQL logs (General, Audit, or Slow) and your own application-level logs, you identified this command from a customer facing application:

```
SELECT id FROM users WHERE login=\\'payback!\\';DROP DATABASE db_prod;\\'
```

Which three methods could have been used to prevent this SQL injection attack from happening? (Choose three.)

- A. writing your client code to properly escape all user input
- B. giving limited privileges to accounts used by application servers to interact with their backing databases
- C. using SSL/TLS on your outward facing web servers (https://) to encrypt all user sessions
- D. using a hashing or encryption method to secure all user passwords in your MySQL tables
- E. removing any remaining anonymous accounts from your MySQL instance
- F. validating all user input before sending it to the database server
- G. changing all passwords for the MySQL account `root`@`%` immediately after losing an employee who knew the current password

Correct Answer: DEG

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**QUESTION 10**

You have installed MySQL Server for the first time on your system. However, the data directory along with the tables in the mysql system database are missing. Which step do you perform to create the contents of the data directory?

- A. Run the create\_system\_tables.sql file
- B. Run the mysql\_unpack.sql file
- C. Invoke mysqld with the --initialize option.
- D. Invoke mysql with the --initialize option.

Correct Answer: C

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

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#### QUESTION 11

What is the best method for monitoring Group Replication conflict resolution?

- A. the PERFORMANCE\_SCHEMA tables
- B. the SHOW PROCESSLIST command
- C. the INNODB Lock Monitor details
- D. the SHOW STATUS command
- E. the INFORMATION\_SCHEMA tables

Correct Answer: A

Reference: <https://dev.mysql.com/doc/refman/8.0/en/group-replication-monitoring.html>

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#### QUESTION 12

The following grants were executed:

```
GRANT CREATE ROUTING ON sales.* TO `webadmin`@`%`;
```

```
GRANT ALTER ON PROCEDURE sales.myproc TO `webadmin`@`%`;
```

A user successfully connects to the database as webadmin and created a stored procedure named get\_reports. The next day, the user logs in again as webadmin and wants to delete the stored procedure named get\_reports, and therefore, issues the following statement:

```
USE sales;
```

```
DROP PROCEDURE IF EXISTS get_reports;
```

What is the result of executing the statement?

- A. The user will get an error because he or she did not use the ALTER statement to drop the stored procedure.
- B. The user will get an error because he or she did not put the database name in front of the stored procedure name.
- C. The stored procedure named get\_reports will be dropped.
- D. The user will get an error because he or she does not have the permission to drop stored procedures.

Correct Answer: C

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### QUESTION 13

You have just executed a manual backup by using this command:

```
mysqlbackup -u root -p --socket=/tmp/my.sock --backup-dir=/my/backup/ backup
```

The operation completed without error.

What is the state of this backup and operation required before it is ready to be restored?

- A. Backup State = Compressed Backup Operation = copy-back
- B. Backup State = Raw Backup Operation = apply-log
- C. Backup State = Prepared Backup Operation = validate
- D. Backup State = Prepared Backup Operation = apply-log
- E. Backup State = Raw Backup Operation = backupdir-to-image

Correct Answer: E

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### QUESTION 14

You are using the Performance Schema to investigate replication on a slave which has a single master. The option slave-parallel-type is set to DATABASE.

```
mysql> SELECT THREAD_ID, threads.NAME, SUM(COUNT_STAR) AS TotalCount, SUM
(SUM_TIMER_WAIT) AS TotalTime
    → FROM
      performance_schema.events_waits_summary_by_thread_by_event_name
    → INNER JOIN performace_schema.threads USING (THREAD_ID)
    → WHERE threads.NAME LIKE 'thread/sql/slave\_%'
    → GROUP BY THREAD_ID, threads.NAME;
```

THREAD_ID	NAME	TotalCount	TotalTime
20	thread/sql/slave_io	5785	654785731198
21	thread/sql/slave_sql	3875	96931638913
22	thread/sql/slave_worker	0	0
23	thread/sql/slave_worker	0	0
24	thread/sql/slave_worker	346730	7262131209667
25	thread/sql/slave_worker	597127	15498842906584

Assume that all instruments and consumers are enabled and all threads are instrumented. Which two facts can be concluded from the given output? (Choose two.)

- A. The slave has two intermediate relay slaves connected to it.
- B. The slave is configured with slave\_parallel\_workers = 4
- C. At most, two schemas are being updates concurrently.
- D. THREAD\_ID 21 has stopped running.
- E. The slave cannot process the relay log fast enough to use all threads.
- F. The server needs more cores to use all slave threads.

Correct Answer: BE

**QUESTION 15**

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

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