



# 1Z0-873<sup>Q&As</sup>

MySQL 5.0 Database Administrator Certified Professional Exam, Part I

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### QUESTION 1

When working with InnoDB, which of the following are true of a parent / child foreign key relationship?

- A. The parent and child can have separate data types.
- B. The parent and child must have the same data type.
- C. The parent and child may sometimes need the same data type, but not always.

Correct Answer: B

#### 29.4.6. Using Foreign Keys

In a foreign key relationship, the referring column and the referenced column should have the same data type, and both must be indexed. (If the referring column has no index, InnoDB creates an index on it automatically.)

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### QUESTION 2

Which of the following variables specify the default storage engine to use if no storage engine is specified when creating a table?

- A. default\_engine
- B. storage\_default
- C. storage\_engine
- D. default\_storage\_engine

Correct Answer: C

#### 29.1. MySQL Storage Engines

If you create a table without using an ENGINE option to specify a storage engine explicitly, the MySQL server creates the table using the default engine, which is given by the value of the storage\_engine system variable.

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### QUESTION 3

Which of the following are true regarding the table cache?

- A. It is used to cache row data in open tables.
- B. It holds file descriptors for open tables.
- C. The size of the table cache may be set per-session
- D. Each connection has its own table cache. They are of equal size, set globally.
- E. There is one table cache, shared among all sessions.



F. Increasing the size of the variable table\_cache allows mysqld to keep more tables open simultaneously.

Correct Answer: BEF

### 39.3.1. Global (Server-Wide) Parameters

This section discusses server parameters for resources that affect server performance as a whole or that are shared among clients.

The table cache that holds information about tables that storage engines have open.

#### 39.3.1.2 The Table Cache

When the server opens a table, it maintains information about that table in the table cache, which is used to avoid reopening tables when possible.

Against this goal you must balance the fact that with a larger table cache the server requires more file descriptors. Operating systems place a limit on the number of file descriptors allowed to each process, so the table cache cannot be made arbitrarily large. However, some operating systems do allow the per-process file descriptor limit to be reconfigured.

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## QUESTION 4

Which of the following are characteristics of the MyISAM fixed-row storage format as compared to the dynamic row format?

- A. All rows have the same size.
- B. Rows take varying amounts of space.
- C. Rows are easy to look up.
- D. Rows cannot be looked up as efficiently.
- E. Row data usually takes up more space on disk and in memory.

Correct Answer: ACE

### 29.2.2. MyISAM Row-Storage Formats

Fixed-row format:

All rows have the same size.

Rows are stored within the table at positions that are multiples of the row size, making them easy to look up.

Fixed-size rows take more space.

Dynamic-row format:

Rows take varying amounts of space.

Rows cannot be looked up as efficiently.

Dynamic-rows tables usually take less space because rows are not padded to a fixed size. Fragmentation can occur



more easily than for fixed-row tables.

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#### QUESTION 5

Which of the following are some trade-offs between binary and text backups?

- A. Binary backups are faster while text backups are slower.
- B. Binary backups are slower while text backups are faster.
- C. Text backups are portable across different architectures.
- D. Binary backups may not be portable across different architectures.

Correct Answer: ACD

#### 32.3.4. Conditions for Binary Portability

MyISAM tables and InnoDB tablespaces are binary portable from one host to another if two conditions are met:

Both machines must use two's-complement integer arithmetic. Both machines must use IEEE floating-point format, or else the tables must contain no floating-point columns (FLOAT or DOUBLE).

In practice, those two conditions pose little restriction. Two's-complement integer arithmetic and IEEE floatingpoint format are the norm on modern hardware.

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#### QUESTION 6

When choosing a storage engine for each of your tables, which things are to consider?

- A. Locking Characteristics: Some storage engines lock on row level, some on page level, some on table level.
- B. Transactions support: Some storage engines support transactions, some don't.
- C. Storage media: Some storage engines store data on disk, some in memory.
- D. Licenses: Some storage engines cannot be used in commercial environments, others can.
- E. Backup methods: Some storage engines support online backup and point in time recovery, some don't.

Correct Answer: ABC

Point in time recovery is not a feature of a storage engine. <http://dev.mysql.com/doc/refman/5.0/en/point-in-time-recovery.html>

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#### QUESTION 7

Suppose you install a server with a service name of "MySQL5" rather than the default. What sections in the option files will the server use for configuration?

- A. [service]



- B. [MySQL5]
- C. [service MySQL5]
- D. [mysqld]
- E. [mysqld MySQL5]

Correct Answer: BD

24.2.

If you install a server using a service name other than MySQL and do not specify a --defaults-file option, the server reads options in the standard option files from the [my\_service] group in addition to options from the [mysqld] group.

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### QUESTION 8

The REPAIR TABLE command should be used...

- A. To improve performance by updating index distribution statistics.
- B. After multiple modifications to a tables data.
- C. To correct problems with a MyISAM table that have become corrupted.
- D. To check a tables structure to see if it may have been damaged and needs repair.

Correct Answer: C

30.2.2. REPAIR TABLE

The REPAIR TABLE statement corrects problems in a table that has become corrupted. It works only for MyISAM tables.

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### QUESTION 9

Which of the following APIs/connectors are included in a MySQL distribution?

- A. Connector/J
- B. Connector/ODBC
- C. C API
- D. Connector/NET
- E. Connector/MJX

Correct Answer: C

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### QUESTION 10



Will the following SELECT query list all of the tables in the INFORMATION\_SCHEMA database? If not, why?

```
SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_SCHEMA =  
\\'INFORMATION_SCHEMA\\' ORDER BY TABLE_NAME
```

- A. Yes.
- B. No; the INFORMATION\_SCHEMA database does not contain information on itself.
- C. No; the WHERE clause is incorrect. The correct field name is TABLE\_SCHEMATA.
- D. No; there is no table in the INFORMATION\_SCHEMA database called TABLES.

Correct Answer: A

20.2. Using INFORMATION\_SCHEMA to Obtain Metadata The INFORMATION\_SCHEMA database serves as a central repository for database metadata. It is a "virtual database" in the sense that it is not stored on disk anywhere, but it contains tables like any other database, and the contents of its tables can be accessed using SELECT like any other tables. Furthermore, you can use SELECT to obtain information about INFORMATION\_SCHEMA itself.

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#### QUESTION 11

You are using a multi-byte character set with variable-length encoding. You need to store records whose values are always 20 characters. Which of the following column types would be the most efficient to use in terms of storage space?

- A. CHAR
- B. VARCHAR
- C. The storage requirements for CHAR or VARCHAR would be the same

Correct Answer: B

27.2. Choosing Data Types for Character Columns For multi-byte character sets that have variable-length encoding, a variable-length data type may be appropriate even if stored values always have the same number of characters. The utf8 character set uses one to three bytes per characters. For fixed-length data types, three bytes per character must always be allocated to allow for the possibility that every character will require the "widest" encoding. Thus, CHAR (32) requires 96 bytes, even if most stored values contain 32 single-byte characters. For variable-length data types, only as much storage is allocated as required. In a VARCHAR(32) column, a 32-character string that consists entirely of three-byte characters requires 96 bytes plus a length byte, whereas it requires only 32 bytes plus a length byte if the string consists entirely of single-byte characters.

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#### QUESTION 12

Which of the following are reasons to not just enable all logging?

- A. Security risks.
- B. More disk space is used.
- C. More memory is used.



D. Slower performance.

Correct Answer: BD

#### 35.4. Log Files and Security

Log exposure constitutes a security risk that must be addressed by protecting the log files, but logs also play a role in enhancing security. Certain logs, if enabled, provide data security or information that is useful in the event of attack:

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