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## Chapter 13

1.	1. Which of the following types of stored programs executes in response to an INSERT, UPDATE, or DELETE statement?					
	<ul><li>a. event</li><li>b. trigger</li></ul>	c. d.	1			
2.	. Which of the following types of stored programs executes when it's called from a SQL statement?					
	<ul><li>a. event</li><li>b. trigger</li></ul>	c. d.	stored procedure stored function			
3.	If you need to check a Boolean expression and expression is true or false, which of the following a simple CASE.	ng s	tatements would you use?			
	<ul><li>a. simple CASE</li><li>b. WHILE</li></ul>	c. d.	REPEAT <mark>IF</mark>			
4. If you need to check multiple Boolean expressions and execute several statements depend expressions, which of the following statements would you use?						
	<ul><li>a. simple CASE</li><li>b. searched CASE</li></ul>		REPEAT WHILE			
5.	5. Which of the following statements do you use to get column values from a row in a cursor and store them in a series of variables?					
	<ul><li>a. UPDATE</li><li>b. OPEN</li></ul>	c. d.	FETCH WHILE			
6.	Which of the following statements can you use	to g	o to the end of a loop?			
	a. END b. <mark>LEAVE</mark>		ITERATE WHILE			
7.	7. Which of the following is <i>not</i> one of the MySQL built-in named conditions?					
	a. NOT FOUND b. END OF FILE	c. d.	SQLWARNING SQLEXCEPTION			
8.	8. Suppose you declare three condition handlers: one that handles errors for a SQLSTATE code, one handles errors for a MySQL error code, and one that handles any error condition other than NOT FOUND. If an error occurs that could be handled by any of the three condition handlers, which condition handler will MySQL use to handle the error?					
	<ul> <li>a. the one for the SQLSTATE code</li> <li>b. the one for the MySQL error code</li> <li>c. the one that will catch any error condition</li> <li>d. all of the above</li> </ul>	othe	r than NOT FOUND			
9.	Which of the following statements would you u "message"?	ise to	o assign the value "Test" to a variable named			
	<pre>a. message = 'Test' b. SET message = 'Test'</pre>	c. d.	SET (message, 'Test') VARCHAR (message, 'Test')			
10.	10. Which of the following types of handlers would you use if you want MySQL to skip the rest of code in a block of code when it encounters an error?					
	a. CONTINUE b. EXIT	c. d.	END SQLEXCEPTION			

# Chapter 14

1.	You can <i>not</i> use transactions when you use
	<ul> <li>a. save points</li> <li>b. locking</li> <li>c. the MyISAM database engine</li> <li>d. the InnoDB database engine</li> </ul>
2.	By default, when you execute an INSERT, UPDATE, or DELETE statement outside of a transaction MySQL
	a. automatically commits changes
	b. commits the changes when a save point is reached
	<ul><li>c. commits the changes when the end of a stored procedure is reached</li><li>d. commits the changes when the COMMIT statement is executed</li></ul>
3.	Each of the following is a valid reason to use a transaction except for one. Which one is it?
	a. When you code two or more INSERT, UPDATE, or DELETE statements that affect
	<ul><li>related data.</li><li>b. The failure of one statement in a set of INSERT, UPDATE, or DELETE statements will violate data integrity.</li></ul>
	c. When you move rows from one table to another table by using INSERT and DELETE statements.
	d. The results of a SELECT query will be used as a subquery.
4.	Which of the following statements do you use to turn off autocommit mode until the statements in a transaction are committed or rolled back?
	a. CREATE PROCEDURE  b. START TRANSACTION  d. NO COMMIT
5.	b. START TRANSACTION d. NO COMMIT Save points allow you to roll back a transaction
٥.	a. to the beginning of the transaction c. both a and b
	b. to a particular save point d. None of above
6.	Which of the following does MySQL use by default to prevent concurrency problems?
	a. transactions b. save points c. locks d. all of above
7.	A lost update occurs when
	a. you perform an update on a set of rows when another transaction is performing an insert that affects one or more rows in that same set of rows
	<ul> <li>b. a transaction selects data that isn't committed by another transaction</li> <li>c. two transactions select the same row and then update the row based on the values</li> </ul>
	originally selected
	d. two SELECT statements that select the same data get different values because another transaction has updated the data in the time between the two statements
8.	Which of the following occurs when neither of two transactions can be committed because they each have a lock on a resource needed by the other?
	<ul><li>a. lost update</li><li>b. rollback</li><li>c. deadlock</li><li>d. common lock</li></ul>
9.	b. rollback d. common lock By default, MySQL prevents <i>all but one</i> of the following types of concurrency problems.
	a. lost updates  c. nonrepeatable reads
	b. dirty reads d. phantom reads
10.	At the highest isolation level, MySQL can prevent
	<ul> <li>a. dirty reads</li> <li>b. lost updates</li> <li>c. nonrepeatable reads</li> <li>d. all of the above</li> </ul>

### Chapter 15

- 1. When you use a stored procedure to insert a row into a table, the procedure must provide input parameters for
  - a. every column
  - b. every column except for columns that have default values
  - c. every column except for columns that have default values or can accept null values
  - d. every column except for columns that have default values, can accept null values, or are defined as auto increment columns
- 2. Checking parameters before they're used to make sure they're valid is referred to as:
  - a. raising an error

c. throwing an exception

b. data validation

d. all of the above

- 3. A user variable is
  - a. available from statements coded both inside and outside of stored programs
  - b. only available to the current user and cannot be seen or accessed by other users
  - c. able to store various data types including string, numeric, and date/time types
  - d. all of the above
- 4. To raise an error in a stored procedure, you must specify
  - a. a MySQL error code

c. a named condition

b. a SQLSTATE code

d. all of the above

5. Assuming that a stored procedure starts with the code that follows, which of the following statements calls the procedure and passes the values 47B and 200 to it?

- 6. You can use dynamic SQL to do all but one of the following. Which one is it?
  - a. Build a SQL statement based on parameters that are passed to a stored procedure.
  - b. Store a SQL statement in a user variable.
  - c. Prepare a SOL statement in a user variable.
  - d. Execute a SQL statement in a user variable.
- 7. To accept a value from a calling program, you can use

a. an input parameter

c. a user variable

b. an output parameter

d. all of the above

8. If binary logging is enabled and you have a function that performs a calculation based on the values you pass to it without retrieving data from the database, which of the following characteristics *must* you code on the function?

```
a. NOT DETERMINISTIC
```

 $_{
m C.}$  NO SQL

b. READS SQL DATA

d. all of the above

9. Assuming that a stored function starts with the code that follows, which of the following column specifications could you use in a SELECT statement to pass the invoice\_date and invoice\_terms columns to the function and use days old as the column name?

- 10. MySQL Workbench can help get you started writing scripts that create stored procedures and functions. When you select the Create Stored Procedure or the Create Funcion item, MySQL Workbench automatically generates some basic code for the routine, including
  - a. a DELIMITER statement
  - b. BEGIN and END keywords
  - c. a CREATE PROCEDURE or CREATE FUNCTION statement
  - d. all of the above

#### Chapter 16

1. Which of the following is the beginning of a trigger named customers\_after\_insert that's executed after an INSERT statement on the table named customers?

```
a. CREATE TRIGGER customers_after_insert
    AFTER INSERT customers

CREATE TRIGGER customers_after_insert
    AFTER INSERT ON customers

C. CREATE TRIGGER ON customers
    AFTER INSERT customers_after_insert

d. CREATE TRIGGER customers_after_insert
    INSERT AFTER ON customers
```

- 2. To code an event that executes every month, you would use the
  - a. SET statement

c. AT clause

b. GLOBAL keyword

- d. EVERY clause
- 3. Which of the following do you typically use to insert rows into an audit table?
  - a. BEFORE trigger

c. one-time event

b. AFTER trigger

- d. recurring event
- 4. Which of the following do you typically use to enforce data consistency?
  - a. BEFORE trigger

c. one-time event

b. AFTER trigger

- d. recurring event
- 5. Which of the following keywords can you use in a trigger to work with the values in a row that's being deleted?

a. OLD

c. both a and b

b. NEW

d. neither a nor b

6.		nch of the following keywords can you use lated?	e in a	trigger to work with the values in a row that's b		
	a. b.	OLD	c. d.	both a and b neither a nor b		
7.	Which of the following clauses must you include on the CREATE TRIGGER statement to create a row-level trigger?					
	a. b.	ROW LEVEL FOR ROW LEVEL	c. d.	EACH ROW FOR EACH FOW		
8.	Wh	Which of the following statements do you use to turn the event scheduler on or off?				
	a. b.	GO RUN	c. d.	DO SET		
9.	What of the following statement about events is <i>not</i> true?					
	a. b.	They are named database objects.  They execute according to the event sche				
	c. d.	They must recur at regular intervals and of They are only available if the event sched				
10.	You can use the ALTER EVENT statement to do all but one of the following. Which one is it?					
	a. b.	disable an event enable an event	c. d.	rename an event drop an event		
CHA	PTE	R 17				
1.	Wh	nich of the following is <i>not</i> typically the res	spons	ibility of a database administrator?		
	a.	Maintain log files				
	b. <mark>c.</mark>	Back up the database regularly  Develop applications that access the data	base			
	d.	Maintain user accounts				
2.	Wh	ich of the following logs contains message		•		
	a. b.	binary <mark>error</mark>		relay startup		
3.	То	use MySQL Workbench to stop a process,	you o	can select the process from a list and		
	a.	click on the Kill Connection button.				
	b. c.	click on the Stop Process button. click on the Discard button.				
	d.	click on the Stop Query button.				
4.		at does the following code do?				
	a.	It gets the global value of the autocommi	t vari:	able		
	b.	It gets the session value of the autocomm	it var	iable		
	c.	It gets the session value of the autocomm session value.	nt var	nable if it exists. Otherwise, it gets the		
	d.	It gets the global value of the autocommissession value.	t vari	able if it exists. Otherwise, it gets the		

	a. b.	log rotation age-based expiration	c. d.	replication configuration		
6.	In v	In which of the following types of files are the system variables for a MySQL server stored?				
	a. b.	data file log file	c. d.	configuration file system file		
7.	The connections to a database server are also referred to as					
	a. b.	queries processes	c. d.	events commands		
8.	Variables that control how the server is currently configured are known as					
	a. c.	system variables use MySQL Workbench	c.	status variables		
9.	The MySQL server process that runs in the background is called					
	a. b.	MySQL db MySQL database	c. d.	MySQL daemon MySQL engine		
10.	Which of the following system variables controls whether the binary log is enabled or disabled?					
	a. b.	log_bin log_binary	c. d.	bin_log binary_log		

5. To manage text-based logs, you can use a strategy known as: