



# PGCES-02<sup>Q&As</sup>

PostgreSQL CE 8 Silver

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**QUESTION 1**

Select two correct statements from below concerning the ANALYZE command.

- A. It renews the statistical information of the table content.
- B. It takes some time to execute, but it does not lock the table.
- C. If the FULL option is used when executing, the size of the file can be reduced.
- D. If ANALYZE is insufficient, the most efficient search plan will not be selected for queries.
- E. If ANALYZE is not used at all, there are times when it becomes impossible to see any of the data.

Correct Answer: AD

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**QUESTION 2**

Select two incorrect statements regarding `\\'TRIGGER\\'`.

- A. When UPDATE is executed to the table, the specified function can be called.
- B. When INSERT is executed to the table, the specified function can be called.
- C. When SELECT is executed to the table, the specified function can be called.
- D. A trigger can be set up to call a specified function before or after the event occurs.
- E. A corresponding rule is automatically created when a trigger is created.

Correct Answer: CE

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**QUESTION 3**

Configuration file `pg_hba.conf` is set as below on a host currently running PostgreSQL. local all all trust  
host all 192.168.1.0/24 reject host all all 192.168.0.0/16 trust Select a host IP address which is authorized to connect to this database via the network. Note:

INET domain socket communication is available.

- A. 127.0.0.1
- B. 192.168.1.1
- C. 192.168.0.1
- D. 192.168.1.0
- E. None can be connected.



Correct Answer: C

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#### QUESTION 4

Select the correct result generated by execution of the following SQL statements: CREATE TABLE log (id int, message TEXT, logtime TIMESTAMP); CREATE TABLE log\_01 () INHERITS (log); INSERT INTO log\_01 VALUES (1, 'error', CURRENT\_TIMESTAMP); SELECT \* FROM log;

- A. First 'CREATE TABLE' generates a syntax error.
- B. Second 'CREATE TABLE' generates a syntax error.
- C. 'INSERT' statement generates an error stating that the number of columns and values do not match".
- D. 'SELECT' statement returns 0 rows, and exits successfully.
- E. 'SELECT' statement returns 1 row, and exits successfully.

Correct Answer: E

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#### QUESTION 5

I would like to be able to save log entries as shown below. Select a correct configuration setting from statements below.

LOG: connection received: host=[local] port=

LOG: connection authorized: user=postgres database=test

- A. syslog = true
- B. log\_connections = true
- C. log\_authorization = true
- D. log\_hostname = true
- E. log\_min\_level = log

Correct Answer: B

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#### QUESTION 6

It is possible to backup a database cluster by copying the entire data directory. Select two suitable descriptions regarding this backup method.

- A. The backup data will be a text file consisting of SQL statements.



- B. The database server must be stopped prior to the backup.
- C. The "pg\_restore" command is used to restore the database.
- D. "psql" is used to restore the database.
- E. You can use standard tools like "tar" and "rsync" to backup files and directories.

Correct Answer: BE

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#### QUESTION 7

Select one statement which will cause a syntax error.

- A. SELECT (SELECT item FROM sale WHERE id = 1);
- B. SELECT \* FROM (SELECT \* FROM customer);
- C. SELECT \* FROM item WHERE cid IN (SELECT cid FROM customer);
- D. SELECT \* FROM sale WHERE name IN (SELECT name FROM names);
- E. SELECT \* FROM sale WHERE cid = ANY (SELECT cid FROM customer);

Correct Answer: B

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#### QUESTION 8

A table and view are defined as follows:

```
CREATE TABLE item (id INT, name TEXT, description TEXT); CREATE VIEW item_simple AS SELECT  
id, name FROM item;
```

A set of SQL statements were executed in the order below. Select the most appropriate statement concerning the execution results.

```
BEGIN;
```

```
SELECT * FROM item_simple;
```

```
INSERT INTO item_simple VALUES (1, 'item_name_1'); UPDATE item_simple SET name =
```

```
'item_name_2' WHERE id = 1; DELETE FROM item_simple;
```

```
END;
```

- A. An error is generated at the point the SELECT statement is executed.
- B. An error is generated at the point the INSERT statement is executed.
- C. An error is generated at the point the UPDATE statement is executed.



- D. An error is generated at the point the DELETE statement is executed.
- E. No error is generated.

Correct Answer: B

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### QUESTION 9

What does the following command do? Select the correct description from below. Note:

"text=#" is the command prompt for psql.

```
test=# ANALYZE foo;
```

- A. Collects statistical information related to the content of the database foo.
- B. Collects statistical information related to the content of the table foo.
- C. Collects statistical information related to the content of the database test.
- D. Outputs statistical information related to the content of the table foo.
- E. The command does not generate an error; however, it does not do anything either.

Correct Answer: B

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### QUESTION 10

Choose the most suitable statement about user management of PostgreSQL. Note: the version of PostgreSQL is 8.0.

- A. Usernames not registered in the operating system cannot be registered as PostgreSQL users.
- B. To create a new user for PostgreSQL, the "newuser" command is used.
- C. PostgreSQL cannot be in a state where multiple users exist at the same time.
- D. If you create a user that has permission to create other users, that user will become a superuser that is not subject to any access restriction checks.
- E. To delete an existing user for PostgreSQL, "deleteuser" command is used.

Correct Answer: D

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### QUESTION 11

Select an appropriate command to check the PostgreSQL version in psql.

- A. \server\_version
- B. SELECT version;



- C. SELECT version();
- D. SHOW version;
- E. SHOW server;

Correct Answer: C

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#### QUESTION 12

Select two suitable statements regarding the following SQL statement: CREATE TRIGGER trigger\_1 AFTER UPDATE ON sales FOR EACH ROW EXECUTE PROCEDURE write\_log();

- A. It is defining a trigger "trigger\_1".
- B. Every time `UPDATE` is executed on the "sales" table, the "write\_log" function is called once.
- C. The "write\_log" function is called before `UPDATE` takes place.
- D. `UPDATE` is not executed if "write\_log" returns NULL.
- E. `DROP TRIGGER trigger_1 ON sales;` deletes the defined trigger.

Correct Answer: AE

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#### QUESTION 13

SQL statements were executed in the following order: CREATE TABLE fmaster (id INTEGER PRIMARY KEY, name TEXT); CREATE TABLE ftrans (id INTEGER REFERENCES fmaster (id), stat INTEGER, date DATE); INSERT INTO fmaster VALUES (1, 'itemA'); INSERT INTO ftrans VALUES (1, 1, CURRENT\_DATE);

Select two SQL statements that will generate an error when executed next.

- A. INSERT INTO ftrans VALUES (1, 1, CURRENT\_DATE);
- B. INSERT INTO ftrans VALUES (2, 1, '2007-07-07');
- C. UPDATE fmaster SET name = 'itemAX' WHERE id = 1;
- D. UPDATE fmaster SET id = 100 WHERE id = 1;
- E. UPDATE ftrans SET id = 200 WHERE id = 1;

Correct Answer: AC

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#### QUESTION 14



Select a correct SQL command to change existing user "george"'s password to "foobar".

- A. ALTER USER george WITH PASSWORD 'foobar';
- B. ALTER USER george CHANGE PASSWORD 'foobar';
- C. ALTER USER george SET PASSWORD 'foobar';
- D. SET USER george PASSWORD TO 'foobar';
- E. SET USER george ALTER PASSWORD 'foobar';

Correct Answer: A

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#### QUESTION 15

Select two incorrect statements concerning the BOOLEAN type in PostgreSQL.

- A. BOOLEAN is an alias of the INTEGER type in PostgreSQL.
- B. BOOLEAN only takes either NULL, TRUE, or FALSE.
- C. You can use the characters 't' or 'f' as a value for the BOOLEAN type.
- D. You can use the TRUE or FALSE keywords as a value for the BOOLEAN type.
- E. If the INTEGER value of '0' is inserted into a BOOLEAN column, it will be treated as FALSE.

Correct Answer: AE

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