

**Exam : PostgreSQL CE
pgces-02**

Title : PostgreSQL CE 8 Silver

Version : Demo

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1. 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.

Answer: AE

2. Select two transaction isolation levels supported in PostgreSQL.

- A. DIRTY READ
- B. READ COMMITTED
- C. REPEATABLE READ
- D. PHANTOM READ
- E. SERIALIZABLE

Answer: BE

3. PostgreSQL can use an index to access a table. Select two incorrect statements about indexes.

- A. An index is created by 'CREATE INDEX', and deleted by 'DROP INDEX'.
- B. By using an index effectively, searching and sorting performs faster.
- C. There are B-tree, Hash, R-tree and GiST index types.
- D. By creating an index, performance always improves.
- E. Creating an unused index does not affect the performance of a database at all.

Answer: DE

4. Select two incorrect statements regarding 'DOMAIN'.

- A. When defining a domain, you can add a default value and constraints to the original data.
- B. Domain is a namespace existing between databases and objects such as tables.
- C. A domain is created by 'CREATE DOMAIN'.

- D. A domain can be used as a column type when defining a table.
- E. To define a domain, both input and output functions are required.

Answer: BE

5. Select two suitable statements regarding the data types of PostgreSQL.

- A. One field can handle up to 1GB of data.
- B. 'n' in CHARACTER(n) represents the number of bytes.
- C. Only the INTEGER type can be declared as an array.
- D. There is a non-standard PostgreSQL data type, called Geometric data type, which handles 2-dimensional data.
- E. A large object data type can be used to store data of unlimited size.

Answer: AD

6. The table "score" is defined as follows:

gid	score
1	70
1	60
2	100
3	80
3	50

The following query was executed. Select the number of rows in the result.

```
SELECT gid, max(score) FROM score
GROUP BY gid HAVING max(score) > 60;
```

- A. 1 row
- B. 2 rows
- C. 3 rows
- D. 4 rows
- E. 5 rows

Answer: C

7. Table "t1" is defined as follows:

```
CREATE TABLE t1 (value VARCHAR(5));
```

A set of SQL statements were executed in the following order. Select the number of rows that table "t1" has after execution.

```
BEGIN;
```

```
INSERT INTO t1 VALUES ('AA');
```

```
SAVEPOINT point1;
```

```
INSERT INTO t1 VALUES ('BB');
```

```
SAVEPOINT point2;
```

```
INSERT INTO t1 VALUES ('CC');
```

```
ROLLBACK TO point1;
```

```
INSERT INTO t1 VALUES ('DD');
```

```
END;
```

- A. 1 row
- B. 2 rows
- C. 3 rows
- D. 4 rows
- E. 0 rows

Answer: B

8. Select two suitable statements about sequences.

A. A sequence always returns a 4-byte INTEGER type value, so the maximum value is 2147483647.

B. A sequence is defined by 'CREATE SEQUENCE', and deleted by 'DROP SEQUENCE'.

C. Although the "nextval" function is called during a transaction, it will have no effect if that transaction is rolled back.

D. A sequence always generates 0 or consecutive positive numbers.

E. A sequence number can be set by calling the "setval" function.

Answer: BE

9. The "sample" table consists of the following data:

How many rows are returned by executing the following SQL statement?

```
SELECT DISTINCT ON (data) * FROM sample;
```

- A. 2 rows
- B. 3 rows
- C. 4 rows
- D. 5 rows
- E. 6 rows

Answer: B

10. The following SQL statements were executed using psql.

Select the appropriate statement about the result.

```
LISTEN sign_v;
```

```
BEGIN;
```

```
NOTIFY sign_v;
```

```
COMMIT;
```

```
LISTEN sign_v;
```

- A. At the point that 'NOTIFY sign_v' is executed, a message that starts with "Asynchronous notification 'sign_v' received" is output.
- B. At the point that 'COMMIT' is executed, a message that starts with "Asynchronous notification 'sign_v' received" is output.
- C. At the point that 'SELECT * FROM pg_user;' is executed, a message that starts with "Asynchronous notification 'sign_v' received" is output.
- D. When 'LISTEN sign_v' is executed for the second time, a message that starts with "Asynchronous notification 'sign_v' received" is output.
- E. The message "Asynchronous notification 'sign_v' received" is not received while in this connection.

Answer: B

11. Select the correct SQL statement which concatenates strings 'ABC' and 'abc' to form 'ABCabc'.

- A. SELECT 'ABC' . 'abc';

- B. SELECT cat('ABC', 'abc') FROM pg_operator;
- C. SELECT 'ABC' + 'abc';
- D. SELECT 'ABC' + 'abc' FROM pg_operator;
- E. SELECT 'ABC' || 'abc';

Answer: E

12. Select two correct descriptions about views.

- A. A view is created by 'DECLARE VIEW', and deleted by 'DROP VIEW'.
- B. A view is a virtual table which does not exist.
- C. A view is created to simplify complicated queries.
- D. You can create a view with the same name as already existing tables.
- E. A view only exists while the postmaster is running, and is deleted when the postmaster stops.

Answer: BC

13. Table "t1" is defined below.

Table "t1" has a column "id" of type INTEGER, and a column "name" of type TEXT.

t1:

The following SQL is executed while client "A" is connected.

```
BEGIN;  
SELECT * FROM t1 WHERE id = 2 FOR UPDATE;  
SELECT * FROM t1 WHERE id = 1 FOR UPDATE; -- (*)
```

While the second 'SELECT' statement, shown with (*), is being executed, a separate client "B" connects and executes the following SQL.

Select the correct statement about the execution results.

```
UPDATE t1 SET name = 'turtle' WHERE id = 2;
```

Note: the default transaction isolation level is set to "read committed".

- A. The update process for client "B" is blocked until the current connection for client "A" is finished.
- B. The update process for client "B" is blocked until the current transaction for client "A" is finished.
- C. The 'UPDATE' process for client "B" proceeds regardless of the condition of client "A".
- D. The process of client "B" immediately generates an error.

E. The processes for both clients are blocked, and an error stating that a deadlock has been detected is generated.

Answer: B

14. 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;

Answer: AC

15. Select three SQL statements which return NULL.

A. SELECT 0 = NULL;

B. SELECT NULL != NULL;

C. SELECT NULL IS NULL;

D. SELECT NULL;

E. SELECT 'null':TEXT;

Answer: ABD

16. The table "custom" is defined below.

The "id" column and "introducer" column are of INTEGER type, and the "email" column is of TEXT type.

```
id |          email          | introducer
```

```
-----+-----+-----  
2 | aaa@example.com |          1  
3 | bbb@example.com |          2  
4 | ccc@example.com |          2
```

Three SQL statements were executed in the following order:

INSERT INTO custom

```
SELECT max(id) + 1, 'ddd@example.com', 4 FROM custom;
```

UPDATE custom SET introducer = 999

```
WHERE email = 'bbb@example.com';
```

DELETE FROM custom

```
WHERE introducer NOT IN (SELECT id FROM custom);
```

Select the number of rows in the "custom" table after the execution.

- A. 0 rows
- B. 1 row
- C. 2 rows
- D. 3 rows
- E. 4 rows

Answer: C

17. The "sample" table consists of the following data:

How many rows are returned by executing the following SQL statement?

```
SELECT * FROM sample WHERE v ~ 'ab';
```

- A. 0 rows
- B. 1 row
- C. 2 rows
- D. 3 rows
- E. 4 rows

Answer: C

18. Select an incorrect statement regarding the following SQL statement. Note that "user_view" is a view.

```
CREATE OR REPLACE RULE rule_1 AS ON UPDATE TO user_view
```

```
DO INSTEAD NOTHING;
```

- A. It is defining a rule "rule_1".
- B. It will replace "rule_1" if it already exists.
- C. Executing 'UPDATE user_view' will no longer output errors.
- D. When executing 'UPDATE user_view', data is updated in the table that is the origin of the view.
- E. 'DROP RULE rule_1 ON user_view' deletes the above definition.

Answer: D

19. Four SQL statements were executed in the following order.

```
CREATE TABLE foo (bar INT);
```

```
ALTER TABLE foo ALTER bar TYPE BIGINT;
```

```
ALTER TABLE foo ADD baz VARCHAR(5);
```

```
ALTER TABLE foo DROP bar;
```

Select two SQL statements that generate an error when executed.

- A. INSERT INTO foo VALUES ('12345');
- B. INSERT INTO foo VALUES ('5000000000');
- C. INSERT INTO foo VALUES ('ABC');
- D. INSERT INTO foo VALUES (2000000000);
- E. INSERT INTO foo VALUES (NULL);

Answer: BD

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