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Question 1

Question Type: MultipleChoice

Select one false statement about the benefits of using database management systems from below.

Options:

- A- You can separate the data storage method from the application.
- B- You can separate the data search method from the application.
- C- You can separate the data display method from the application.
- D- You can reduce the programming workload of programming for managing data.
- E- You can share data more easily on systems consisting of multiple computers.

Answer:

C

Question 2

Question Type: MultipleChoice

Select one incorrect statement concerning changes from PostgreSQL version 7.4 to 8.0.

Options:

- A- SAVEPOINT function was added.
- B- Point-In-Time Recovery function was added.
- C- The shared buffer control algorithm was improved.
- D- Two-phase commit function was added.
- E- CSV mode was added to the copy command.

Answer:

D

Question 3

Question Type: MultipleChoice

Which normal form has the constraint that there must be no tables with duplicate column values in the same row?

Options:

- A- First normal form
- B- Second normal form
- C- Third normal form
- D- Boyce/Codd normal form
- E- Fourth normal form

Answer:

A

Question 4

Question Type: MultipleChoice

Select two suitable statements about the BSD license from below.

Options:

- A- If you make changes to the source code, feedback must be sent to the original developers.
- B- It is used by open source software.
- C- User registration is required.
- D- It is defined by Free Software Foundation, Inc. (FSF).
- E- Software under the BSD license can be incorporated with any programs provided that the copyright notice appears in all copies.

Answer:

B, E

Question 5

Question Type: MultipleChoice

The tables "t1" and "t2" are defined in the same way (they have the same data types and column names). You want to select rows in "t1" which are not in "t2". Select a correct keyword to fill in the blank below. `SELECT * FROM t1 _____ SELECT * FROM t2;`

Options:

A- EXCEPT

- B- UNION
- C- NAND
- D- INTERSECT
- E- INTERSECT ALL

Answer:

A

Question 6

Question Type: MultipleChoice

The table "t1" is defined by the following SQL statement: CREATE TABLE t1 (id integer, name varchar(20)); You want to increase the execution speed of the SQL statement below: SELECT id, name FROM t1 WHERE id

Options:

- A- CREATE INDEX t1_idx ON t1 (id, upper(name));
- B- CREATE INDEX t1_idx ON t1 USING HASH (id);

C- CREATE INDEX t1_idx ON t1 (name);

D- ALTER TABLE ADD INDEX ON t1 (id, upper(name));

E- ALTER TABLE ADD INDEX ON t1 (id, name);

Answer:

A

Question 7

Question Type: MultipleChoice

Select two appropriate statements from below about the following SQL statements:

```
CREATE FUNCTION myfunc(INTEGER) RETURNS text LANGUAGE plpgsql STRICT AS '
```

```
DECLARE x ALIAS FOR $1; r text := "default"; BEGIN IF x > 100 THEN SELECT INTO r data FROM mytable WHERE id = x; END IF;  
RETURN r; END;;
```

Options:

- A- An error is generated unless the plpgsql language is registered in the database beforehand.
- B- The execution results of SELECT myfunc(-123) differs based on the content of 'mytable'.
- C- When SELECT myfunc(123) is executed an error occurs.
- D- When SELECT myfunc(NULL) is executed an error occurs.
- E- When SELECT myfunc (0) is executed the text 'default' is returned.

Answer:

A, E

Question 8

Question Type: MultipleChoice

Select the correct SQL statement to define a new data type.

Options:

- A- CREATE CLASS
- B- CREATE FUNCTION

C- CREATE OPERATOR

D- CREATE DATABASE

E- CREATE TYPE

Answer:

E

Question 9

Question Type: MultipleChoice

The "sample" table consists of the data below. The column "x" is of type INTEGER.

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

6 / x FROM sample WHERE CASE WHEN x = 0 THEN FALSE ELSE TRUE END;

Options:

A- 'ERROR division by zero' and no rows are returned.

B- 0 rows with no errors.

C- 1 row

D- 2 rows

E- 3 rows

Answer:

D

Question 10

Question Type: MultipleChoice

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;
```

Options:

- 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.

Answer:

E

Question 11

Question Type: MultipleChoice

You want to create a cursor that will SELECT the "customer" table. The created cursor must be able to move in any direction and reference data even after the end of the transaction. Select one answer containing the correct keyword(s) to fill in the underlined blank below. DECLARE cursor1 _____ FOR SELECT * FROM customer;

Options:

A- CURSOR

B- SCROLL CURSOR WITH HOLD

C- INSENSITIVE CURSOR

D- NO SCROLL CURSOR WITH HOLD

E- CURSOR WITHOUT HOLD

Answer:

B

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