



Vendor: IBM

Exam Code: 000-545

Exam Name: DB2 9.7 SQL Procedure Developer

Version: DEMO

1. A developer needs to create a user-defined function that will return a list of employees who work in a particular department. Which statement will successfully create a function that meets this objective?

- A. CREATE FUNCTION dept_employees (deptno CHAR(3)) RETURNS TABLE LANGUAGE SQL READS SQL DATA RETURN SELECT empno, lastname AS l_name, firstname AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno
- B. CREATE FUNCTION dept_employees (deptno CHAR(3)) RETURNS TABLE DYNAMIC RESULT SETS 1 LANGUAGE SQL READS SQL DATA DECLARE emp_info CURSOR WITH RETURN FOR SELECT empno, lastname AS l_name, firstname AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno OPEN emp_info; RETURN
- C. CREATE FUNCTION dept_employees (deptno CHAR(3)) RETURNS TABLE (empno CHAR(6), l_name VARCHAR(15), f_name VARCHAR(12)) LANGUAGE SQL READS SQL DATA RETURN SELECT empno, lastname AS l_name, firstname AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno
- D. CREATE FUNCTION dept_employees (deptno CHAR(3)) RETURNS TABLE (empno CHAR(6), l_name VARCHAR(15), f_name VARCHAR(12)) DYNAMIC RESULT SETS 1 LANGUAGE SQL READS SQL DATA DECLARE emp_info CURSOR WITH RETURN FOR SELECT empno, lastname AS l_name, firstname AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno OPEN emp_info; RETURN

Answer: C

2. In the function shown below:

```
CREATE FUNCTION fcn1(deptno CHAR(3))
  RETURNS TABLE(empno CHAR(6),
                firstname VARCHAR(12))
  READS SQL DATA
  RETURN
  SELECT empno, firstname
  FROM employee
  WHERE employee.workdept = fcn1.deptno;
```

- A. SELECT * FROM TABLE(fcn1('B01'))
- B. SELECT TABLE(fcn1('B01')) FROM SYSIBM.SYSDUMMY1
- C. SELECT * FROM fcn1('B01')
- D. SELECT fcn1('B01') FROM SYSIBM.SYSDUMMY1

Answer: A

3. Which statement correctly describes characteristics of external functions?

- A. External functions cannot return tables.
- B. All cursors opened within an external function should stay open until the database isquiesced.
- C. Scratchpads can be used to allocate dynamic memory required for multiple function invocations.
- D. Transactions can be terminated within external functions.

Answer: C

4. Click the Exhibit button.

```

EMPNO  FIRSTNAME  LASTNAME
-----  -
000010  CHRISTINE  HAAS
PRES    A00
000020  MICHAEL   THOMPSON
MANAGER B01
000050  JOHN      GEYER
MANAGER E01
000060  IRVING    STERN
MANAGER D11
000070  EVA       PULASKI
MANAGER D21
000090  EILEEN    HENDERSON
MANAGER E11
000100  THEODORE  SPENSER
MANAGER E21
000200  DAVID     BROWN
DESIGNER D11
000210  WILLIAM   JONES
DESIGNER D11
000220  JENNIFER  LUTZ
DESIGNER D11
000230  JAMES     JEFFERSON
CLERK    D21
000240  SALVATORE MARINO
CLERK    D21
000250  DANIEL    SMITH
CLERK    D21
000260  SYBIL     JOHNSON
CLERK    E21
000270  MARIA     PEREZ
CLERK    D21
000280  ETHEL     SCHNEIDER
OPERATOR E11
000290  JOHN      PARKER
OPERATOR E11
000320  RAMLAL    MEHTA
FIELDREP E21
000330  WING      LEE
200170  KIYOSHI   YAMAMOTO
DESIGNER D11
200220  REBA      JOHN
DESIGNER D11
200240  ROBERT    MONTEVERDE
CLERK    D21
200330  HELENA    WONG
FIELDREP E21
200340  ROY       ALONZO
FIELDREP E21

UDF definition:
CREATE FUNCTION getnymbemployee(p_dept
VARCHAR(3))
RETURNS TABLE (enum INT, empno VARCHAR(6),
                lastname VARCHAR(15),
                firstme VARCHAR(12))
RETURN SELECT ROW_NUMBER() OVER (),
e.empno, e.lastname, e.firstme
FROM employee e WHERE e.workdep

```

Referring to the exhibit, how many rows will be returned by the SQL query shown below?

```
SELECT *  
FROM TABLE(getnumemployee(21?) AS d  
SELECT * FROM  
TABLE(getnumemployee(?21?) AS d
```

- A.0
- B.1
- C.7
- D.10

Answer: C

5.Which three optional clauses can be used when creating an external function? (Choose three.)

- A. SCRATCHPAD
- B. NOTEPAD
- C. LANGUAGE
- D. EXTERNAL NAME
- E. DATABASEINFO

Answer: A,C,D

6.Which statement is permitted within a scalar user-defined function body?

- A. COMMIT
- B. INSERT
- C. SIGNAL
- D. LOOP

Answer: C

7.Click the Exhibit button.

A user-defined function was created using the statement shown in the exhibit. Which additional option can be added to the CREATE FUNCTION statement to tell the optimizer that the function does not always return the same results for a given argument value?

- A. NO EXTERNAL ACTION
- B. NOT FENCED
- C. NOT DETERMINISTIC
- D. STATIC DISPATCH

Answer: C

8.Given the following SQL:

Which statement is incorrect?

- A. The procedure declaration requires the DYNAMIC RESULT SETS 1 clause in order to return a result set.
- B. The cursor declaration requires the WITH RETURN TO CLIENT clause in order to return a result set.
- C. The cursor declaration requires the WITH RETURN TO CALLER clause in order to return a result set.

D. The cursor declaration requires the WITH RETURN clause in order to return a result set.

Answer: A

9. Given the following SQL:

Which of the following statements is true?

A. The procedure declaration requires the DYNAMIC RESULT SETS 1 clause in order to return a result set.

B. The cursor declaration requires WITH RETURN TO CLIENT clause in order to return a result set.

C. The cursor declaration requires WITH RETURN TO CALLER clause in order to return a result set.

D. The cursor declaration requires WITH RETURN clause in order to return a result set.

Answer: B

10. In the stored procedure below: What will the value of the P_ID parameter be if the procedure is invoked and a value of 2 is specified for the START_VALUE parameter?

A. 1

B. 2

C. 3

D. 4

Answer: C

11. Which procedure demonstrates the correct use of dynamic SQL?

A. CREATE PROCEDURE update_count1 (IN new_count INTEGER, IN item_code INTEGER) BEGIN

DECLARE v_dynSQL VARCHAR(200); SET v_dynSQL = 'UPDATE stock SET quantity_on_hand=?

WHERE item_number=?'; PREPARE v_stmt1 FROM v_dynSQL; EXECUTE v_stmt1 USING new_count,

item_code; END

B. CREATE PROCEDURE update_count2 (IN tab_name VARCHAR(128), IN new_count INTEGER, IN

item_code INTEGER) BEGIN DECLARE v_dynSQL VARCHAR(200); SET v_dynSQL = 'UPDATE ? SET

quantity_on_hand=? WHERE item_number=?'; PREPARE v_stmt1 FROM v_dynSQL; EXECUTE

v_stmt1 USING tab_name, new_count, item_code; END

C. CREATE PROCEDURE update_count4 (IN tab_name VARCHAR(128), IN col_name1 VARCHAR(128), IN col_name2 VARCHAR(128), IN new_count INTEGER, IN item_code INTEGER)

BEGIN

DECLARE v_dynSQL VARCHAR(200); SET v_dynSQL = 'UPDATE ? SET ?=?

WHERE ?=?'; PREPARE

```
v_stmt1 FROM v_dynSQL; EXECUTE v_stmt1 USING tab_name, col_name1, new_count, col_name2, item_code; END
```

```
D. CREATE PROCEDURE update_count5 (IN new_count INTEGER, IN item_code INTEGER) BEGIN DECLARE v_dynSQL VARCHAR(200); DECLARE v_col_name VARCHAR(128); SET v_col_name = 'item_number'; SET v_dynSQL = 'UPDATE stock SET quantity_on_hand=? WHERE ?=?'; PREPARE v_stmt1 FROM v_dynSQL; EXECUTE v_stmt1 USING new_count, v_col_name, item_code; END
```

Answer: A

12. A developer wants to code the following statements in an SQL procedure:

- A. 1, 2, 3, 4
- B. 2, 4, 3, 1
- C. 3, 4, 2, 1
- D. 4, 3, 2, 1

Answer: B

13. What is a reason to use SQL procedures in DB2?

- A. to use different programming languages
- B. to reduce code sharing
- C. to move business logic rules into the database
- D. to eliminate the need for testing

Answer: C

14. Which SQL procedure declaration is coded correctly?

- A. CREATE PROCEDURE myproc (IN salary DOUBLE, OUT commission DOUBLE) BEGIN DECLARE EXIT HANDLER FOR SQLEXCEPTION SET commission = 0; DECLARE my_cur CURSOR FOR SELECT * FROM employee; DECLARE a DOUBLE; SET a = .06 * salary; SET commission = a; END
- B. CREATE PROCEDURE myproc (IN salary DOUBLE, OUT commission DOUBLE) BEGIN DECLARE EXIT HANDLER FOR SQLEXCEPTION SET commission = 0; DECLARE a DOUBLE; DECLARE my_cur CURSOR FOR SELECT * FROM employee; SET a = .06 * salary; SET commission = a; END
- C. CREATE PROCEDURE myproc (IN salary DOUBLE, OUT commission DOUBLE) BEGIN DECLARE a DOUBLE; DECLARE EXIT HANDLER FOR SQLEXCEPTION SET commission = 0; DECLARE my_cur CURSOR FOR SELECT * FROM employee; SET a = .06 * salary; SET commission = a; END

```
D. CREATE PROCEDUREmyproc(IN salary DOUBLE, OUT commission DOUBLE)
BEGIN DECLARE a DOUBLE; DECLARE my_cur CURSOR FOR SELECT * FROM
employee; DECLARE EXIT HANDLER
FOR SQLEXCEPTION
SET commission = 0; SET a = .06 * salary; SET commission = a; END
```

Answer: D

15.The CREATE PROCEDURE statement shown below was executed against a database called MYDB. CREATE PROCEDURE myschema.proc1(IN p1 INTEGER, OUT p2 CHAR(4), OUT p3 SMALLINT) BEGIN SET p2 = 'abc'; END Which two CREATE PROCEDURE statements, when executed against the same database, will succeed? (Choose two.)

- A. CREATE PROCEDUREmyschema.proc1(IN p1 CHAR(4), OUT p2 INTEGER) BEGIN SET p2 = 123; END
- B. CREATE PROCEDUREmyschema.proc1(IN p1 INTEGER, OUT p2 CHAR(4), OUT p3 CHAR(4)) BEGIN SET p2 = 'abc'; END
- C. CREATE PROCEDUREmyschema.proc1(IN p1 CHAR(4), OUT p2 INTEGER, OUT p3 SMALLINT) BEGIN SET p2 = 123; END
- D. CREATE PROCEDUREotherschema.proc1(IN p1 CHAR(4), OUT p2 CHAR(4), OUT p3 CHAR(4)) BEGIN SET p2 = 'abc'; END
- E. CREATE PROCEDUREmyschema.proc1(IN p1 NUMBER, OUT p2 NUMBER, OUT p3 NUMBER) BEGIN SET p2 = 'abc';END

Answer: A,D

16.If this statement was used to create an SQL procedure named P_EXIT:

- A. 10
- B. 20
- C. 99
- D. NULL

Answer: C

17.The CREATE OR REPLACE PROCEDURE statement is similar semantically to which of the following combined statements?

- A. DROP and CREATE PROCEDURE
- B. ALTER and CREATE PROCEDURE
- C. UPDATE and CREATE PROCEDURE
- D. DROP and ALTER PROCEDURE

Answer: A

18.Given the two SQL procedures shown below: What is the expected output if procedure S1 is invoked with the value 1 provided for parameter V1?

- A. NULL
- B. 2
- C. 5

D. 7

Answer: D

19. Which CREATE PROCEDURE statement option should be used if you plan on issuing a DECLARE GLOBAL TEMPORARY TABLE statement from within the SQL procedure body?

- A. CONTAINS SQL
- B. READS SQL DATA
- C. MODIFIES SQL DATA
- D. LANGUAGE SQL

Answer: C

20. Click on the Exhibit button.

Referring to the exhibit, what is the OUT_PHONENUMBERS result set when the SQL procedure is invoked by the call statement shown below? CALL

```
find_customers(ARRAY[?16-305-3745? ?05-416-4565? ?16-305-3746?
'905-414-4566'], ?16??)
```

- A. [?16-305-3745??05-416-4565? ?16-305-3746']
- B. [?16-305-3745??05-416-4565? ?16-305-3746? '905-414-4566']
- C. [?05-416-4565? '905-414-4566']
- D. [?16-305-3745? ?16-305-3746[?16-305-3745? ?16-305-3746?

Answer: D