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 FUNCTIONdept_employees (deptno CHAR(3)) RETURNS TABLE LANGUAGE SQL

READS SQL DATA RETURN SELECT empno, lastname AS l_name, firstnme AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno

B. CREATE FUNCTIONdept_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, firstnme AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno OPEN emp_info; RETURN

C. CREATE FUNCTIONdept_employees (deptno CHAR(3)) RETURNS TABLE (empno CHAR(6),

l_nameVARCHAR(15), f_nameVARCHAR(12)) LANGUAGE SQL READS SQL DATA RETURN SELECT

empno, lastname AS l_name, firstnme AS f_name FROM employee WHERE employee.workdept =

dept_employees.deptno

D. CREATE FUNCTIONdept_employees (deptno CHAR(3)) RETURNS TABLE (empno CHAR(6),

l_nameVARCHAR(15), f_nameVARCHAR(12)) DYNAMIC RESULT SETS 1 LANGUAGE SQL READS

SQL DATA DECLARE emp_info CURSOR WITH RETURN FOR

SELECT empno, lastname AS l_name, firstnme AS f_name FROM employee WHERE employee.workdept = dept_employees.deptno OPEN emp_info; RETURN

Answer: C

2.In the function shown below:

A. SELECT * FROMTABLE(fcn1('B01'))

B. SELECTTABLE(fcn1('B01')) FROM SYSIBM.SYSDUMMY1

C. SELECT * FROMfcn1('B01')

D. SELECTfcn1('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.


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EMPNO   FIRSTNME        LASTNAME
        JOB             WORKDEPT
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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 getnumbemployee(p_dept
VARCHAR(3))
  RETURNS TABLE (enum INT, empno VARCHAR(6),
              lastname VARCHAR(15),
              firstnme VARCHAR(12))
  RETURN SELECT ROW_NUMBER() OVER (),
e.empno, e.lastname, e.firstnme
    FROM employee e WHERE e.workde,
```

Referring to the exhibit, how many rows will be returned by the SQL query shown below?
SELECT *
FROM TABLE(getnumemployee(21?) AS dSELECT * 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 (INnew_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 (INtab_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 (INtab_name VARCHAR(128), IN col_name1 VARCHAR(128), IN col_name2 VARCHAR(128), IN new_countINTEGER, 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 (INnew_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 PROCEDUREmyproc(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 PROCEDUREmyproc(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 PROCEDUREmyproc(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