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# 000-545

## IBM

*DB2 9.7 SQL Procedure Developer*

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**QUESTION: 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, firstname 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,  
firstname 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, firstname 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, firstname AS f\_name  
FROM employee

WHERE employee.workdept = dept\_employees.deptno

OPEN emp\_info; RETURN

**Answer: C**

**QUESTION: 2**

In the function shown below:

```

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

```

Which statement can be used to invoke the function above?

- A. SELECT \* FROMTABLE(fcn1('B01'))
- B. SELECTTABLE(fcn1('B01')) FROM SYSIBM.SYSDUMMY1
- C. SELECT \* FROMfcn1('B01')
- D. SELECTfcn1('B01') FROM SYSIBM.SYSDUMMY1

**Answer:** A

### QUESTION: 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

### QUESTION: 4

Click the Exhibit button.

EMPNO	FIRSTNAME	LASTNAME
000010	CHRISTINE	HAAS
000020	FRANK	AND
000030	MARCEL	ROBINSON
000040	JOHN	STEVEN
000050	MANAGER	STERN
000060	JOHN	WALSH
000070	MANAGER	COLEMAN
000080	RESEARCH	SMITH
000090	MANAGER	SMITH
000100	RESEARCH	SMITH
000110	MANAGER	BROWN
000120	DAVID	BROWN
000130	DESIGNER	DIET
000140	WILLIAM	JONES
000150	DESIGNER	DIET
000160	RESEARCH	DIET
000170	DESIGNER	SMITH
000180	JAMES	SMITH
000190	CLERK	MORINO
000200	OPERATOR	SMITH
000210	DANIEL	SMITH
000220	CLERK	SMITH
000230	CLERK	SMITH
000240	CLERK	SMITH
000250	CLERK	SMITH
000260	CLERK	SMITH
000270	CLERK	SMITH
000280	CLERK	SMITH
000290	OPERATOR	SMITH
000300	OPERATOR	SMITH
000310	JOHN	SMITH
000320	MANAGER	SMITH
000330	WONG	SMITH
000340	RESEARCH	SMITH
000350	RESEARCH	SMITH
000360	RESEARCH	SMITH
000370	RESEARCH	SMITH
000380	RESEARCH	SMITH
000390	RESEARCH	SMITH
000400	RESEARCH	SMITH

```

UDF definition:
CREATE FUNCTION getnumsemployee_dept
  RETURNS TABLE(empno CHAR(6), firstnme VARCHAR(12))
  READS SQL DATA
  RETURN SELECT empno, firstnme
  FROM employee
  WHERE employee.workdept = dept;

```

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

**QUESTION: 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

**QUESTION: 6**

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

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

**Answer:** C

**QUESTION: 7**

Click the Exhibit button.

```

CREATE FUNCTION emp_birthdays (month INTEGER)
RETURNS TABLE (l_name VARCHAR(15),
                f_name VARCHAR(12),
                month VARCHAR(20),
                day INTEGER)
LANGUAGE SQL
READS SQL DATA
NO EXTERNAL ACTION
RETURN
SELECT lastname, firstme, MONTHNAME(birthdate),
       DAY(birthdate)
FROM employee
WHERE MONTH(employee.birthdate) =
emp_birthdays.month

```

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

**QUESTION:** 8

Given the following SQL:

```

CREATE PROCEDURE test_proc()
BEGIN
  DECLARE c1 CURSOR FOR
  VALUES ('NAME1','NAME2','NAME3');
  OPEN c1;
END

```

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**

**QUESTION: 9**

Given the following SQL:

```
CREATE PROCEDURE test_proc()
BEGIN
  DECLARE i INTEGER DEFAULT 1;
  WHILE i < 10 DO
  BEGIN
    DECLARE cur CURSOR FOR
      VALUES ('NAME1','NAME2','NAME3');
    OPEN cur;
    SET index = index + 1;
  END;
  END WHILE;
END
```

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**

**QUESTION: 10**

In the stored procedure below:

```
CREATE PROCEDURE proc_labels (IN start_value INT, OUT p_ID INT)
s1: BEGIN
  DECLARE v_ID INT;
  s2: BEGIN
    DECLARE v_ID INT;
    SET v_ID = start_value;
    SET s1.v_ID = v_ID + s2.v_ID;
    SET v_ID = 3;
    SET p_ID = s2.v_ID;
  END;
END s1
```

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

**QUESTION: 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

**QUESTION: 12**

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





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