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**Oracle Database 11g: Program with PL/SQL**

Oracle 1z0-144

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**QUESTION NO: 1**

View Exhibit 1 and examine the structure of the DO table.

```
SQL> desc emp
Name          Null?         Type
-----
EMPNO         NOT NULL     NUMBER(4)
ENAME         VARCHAR2(10)
JOB           VARCHAR2(9)
MGR           NUMBER(4)
HIREDATE      DATE
SAL           NUMBER(7,2)
COMM          NUMBER(7,2)
DEPTNO        NUMBER(2)
```

View Exhibit 2 and examine the code.

```
SQL>CREATE OR REPLACE FUNCTION job_chk (p_empno NUMBER)
2   RETURN BOOLEAN IS
3   v_job emp.job%TYPE;
4   BEGIN
5       SELECT job INTO v_job FROM emp WHERE empno = p_empno;
6       IF v_job 'SALESMAN' THEN
7           RETURN TRUE;
8       ELSE
9           RETURN FALSE;
10      END IF;
11  END job_chk;
/
SQL>DECLARE
2   v_job BOOLEAN;
3   dyn_stmt VARCHAR2(200);
4   v_comm NUMBER := NULL;
5   v_empno emp.empno%TYPE;
6   BEGIN
7       dyn_stmt := 'BEGIN:v_job := job_chk(100); END;';
8       EXECUTE IMMEDIATE dyn_stmt USING OUT v_job;
9       IF v_job THEN
10          EXECUTE IMMEDIATE 'UPDATE emp SET comm = :x WHERE empno = :y'
11          USING v_comm, v_empno;
12      END IF;
13  END;
```

The anonymous block gives an error on execution. What is the reason?

- A. The assignment in line 7 is not valid.
- B. The SQL does not support the Boolean data type.
- C. A null value cannot be applied to the bind arguments in the using clause in line 10.
- D. The names of bind variables must be the same as the using clause bind arguments in line 10.

**ANSWER: B**

## QUESTION NO: 2

View the Exhibit to examine the PL/SQL block.

```
SQL> CREATE TABLE employees_temp (
    empid NUMBER(6) NOT NULL PRIMARY KEY,
    deptid NUMBER(6) CONSTRAINT c_employees_temp_deptid
        CHECK (deptid BETWEEN 100 AND 200),
    deptname VARCHAR2(30) DEFAULT 'Sales'
);

Table created.

SQL> DECLARE
    emprec employees_temp%ROWTYPE;
BEGIN
    emprec.empid := NULL;
    emprec.deptid := 50;
    DBMS_OUTPUT.PUT_LINE('emprec.deptname:' || emprec.deptname);
END;
```

Which statement is true about the output of the PL/SQL block?

- A. It executes and the Output is emprec.deptname: .
- B. It executes and the Output is emprec.deptname: Sales.
- C. It produces an error because NULL is assigned to the emprec.empid field in the record.
- D. It produces an error because the CHECK constraint is violated while assigning a value to the emprec.deptid field in the record.

**ANSWER: A**

## QUESTION NO: 3

Which two statements are true about PL/SQL exception propagation? (Choose two.)

- A. The exception reproduces itself in successive enclosing blocks until a handler is found.
- B. Exception- can propagate across the remote subprograms that are called through database links.
- C. If you declare a local exception in a subblock and a global exception in the outer block, the local declaration overrides the global exception.
- D. If you declare a local exception in a subblock and a global exception in the outer block, the global declaration overrides the local exception.

**ANSWER: A C**

## QUESTION NO: 4

Which system events can be used to create triggers that fire both at database and schema levels? (Choose all that apply)

- A. AFTER LOGON
- B. AFTER STARTUP
- C. BEFORE SHUTDOWN
- D. AFTER SERVERERROR

**ANSWER: A D**

**Explanation:**

References: [http://docs.oracle.com/cd/E11882\\_01/appdev.112/e25519/create\\_trigger.htm#LNPLS2064](http://docs.oracle.com/cd/E11882_01/appdev.112/e25519/create_trigger.htm#LNPLS2064)

## QUESTION NO: 5

Which statements correctly describe the features of functions and procedures? (Choose all that apply.)

- A. A procedure can contain a return statement without a value.
- B. A function can return multiple values using a single return clause.
- C. A procedure can be executed as part of a SQL expression or as a PL/SQL statement.
- D. A function can contain zero or more parameters that are transferred from the calling environment.

**ANSWER: A D**

**Explanation:**

References:

## QUESTION NO: 6

View the Exhibit and examine the structure of the EMP table.

```
SQL> desc emp
Name          Null?         Type
-----
EMPNO         NOT NULL     NUMBER(4)
ENAME         VCHAR2(10)
JOB           VCHAR2(9)
MGR           NUMBER(4)
HIREDATE      DATE
SAL           NUMBER(7,2)
COMM          NUMBER(7,2)
DEPTNO        NUMBER(2)
```

Examine the following block of code:

```
SQL>DECLARE
v_sal NUMBER;
BEGIN
SELECT sal INTO v_sal FROM emp WHERE empno = 130;
INSERT INTO emp(empno, ename, sal) VALUES (185, 'Jones', v_sal+1000);

END;
/
```

Which stages are performed when the above block is executed? (Choose all that apply.)

- A. Bind
- B. Parse
- C. Fetch
- D. Execute

**ANSWER: C**

**Explanation:**

Reference

<https://www.ibm.com/support/knowledgecenter/en/SS6NHC/com.ibm.swg.im.dashdb.apdv.plsql.doc/doc/c0053844.html>

## QUESTION NO: 7

View the exhibit and examine the structure of the EMPLOYEE table.

EMPLOYEE\_SEQ is an existing sequence.

Examine the following block of code:

```
BEGIN
  BEGIN
    INSERT INTO employees(employee_id, first_name, last_name, email,
      hire_date, job_id, salary)
    VALUES(employees_seq.NEXTVAL, 'Ruth',
      'Cores', 'RCORES', CURRENT_DATE,
      'AD_ASST', 4000);
  END;
  BEGIN
    INSERT INTO employees(employee_id, first_name, last_name, email,
      hire_date, job_id, salary)
    VALUES(employees_seq.NEXTVAL, 'Tom',
      'Jones', 'TJONES', CURRENT_DATE,
      'AD_MGR', 6000);
  END;
END;
```

Which statement is true about the above block of code?

- A. It consists of two transactions
- B. It consists of a single transaction.
- C. The data is automatically committed after the block execution ends.
- D. It gives an error on execution because sequences cannot be used in anonymous blocks.

**ANSWER: B**

## QUESTION NO: 8

Which two statements are true about database triggers? (Choose two.)

- A. Each trigger can be of any size.

- B. Each trigger can be of a maximum size of 32 KB.
- C. A trigger can contain a maximum of 32 lines of code.
- D. Triggers fired by DML statements cannot cascade simultaneously.
- E. Both DML and DDL statements can cascade any number of triggers.
- F. Both data manipulation language (DML) and data definition language (DDL) statements can cascade up to 32 triggers.

**ANSWER: B F**

**Explanation:**

References:

## QUESTION NO: 9

What is the correct definition of the persistent state of a packaged variable?

- A. It is a private variable defined in a procedure or function within a package body whose value is consistent within a user session.
- B. It is a public variable in a package specification whose value is consistent within a user session.
- C. It is a private variable in a package body whose value is consistent across all current active sessions.
- D. It is a public variable in a package specification whose value is always consistent across all current active sessions.

**ANSWER: B**

## QUESTION NO: 10

View Exhibit 1 and examine the structure of the EMP table.

```
SQL> desc emp
Name          Null?         Type
-----
EMPNO         NOT NULL     NUMBER(4)
ENAME
JOB           VARCHAR2(9)
MGR           NUMBER(4)
HIREDATE      DATE
SAL           NUMBER(7,2)
COMM          NUMBER(7,2)
DEPTNO        NUMBER(2)
```

View Exhibit 2 and examine the code.

```
SQL>CREATE OR REPLACE PROCEDURE raise_salary (emp_id IN NUMBER,
2      amount IN NUMBER,extra IN NUMBER DEFAULT 50)
3  IS
4  BEGIN
5      UPDATE emp SET sal = sal + NVL(amount,0) + extra
6      WHERE empno = emp_id;
7  END raise_salary;
/
SQL>DECLARE
2      emp_num NUMBER(6) := 7900;
3      bonus   NUMBER(6);
4      merit   NUMBER(4);
5  BEGIN
6      raise_salary(7845);
7      raise_salary(emp_num, extra => 25);
8      raise_salary(7845,NULL, 25);
9      raise_salary(emp_num, extra => 25, amount => NULL);
10 END;
/
```

EKPNOS 7845 and 7900 exist in the EMP table.

Which two calls to the RAISE\_SALABY procedure in the anonymous block execute successfully? (Choose two.)

- A. call in line 6
- B. call in line 7

C. call in line 8

D. call in line 9

**ANSWER: C D**