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Oracle Database 11g: Program with PL/SQL

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QUESTION 1

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

```
Name                       Null?        Type
-----------------------    ---------    ---------
EMPLOYEE_ID                NOT NULL     NUMBER(6)
FIRST_NAME                              VARCHAR2(20)
LAST_NAME                  NOT NULL     VARCHAR2(25)
HIRE_DATE                  NOT NULL     DATE
JOB_ID                     NOT NULL     VARCHAR2(10)
SALARY                                  NUMBER(8,2)
COMMISSION_PCT                          NUMBER(2,2)
MANAGER_ID                              NUMBER(6)
DEPARTMENT_ID                           NUMBER(4)
```

User SCOTT needs to generate a text report that contains the names of all employees and their salaries.

Examine the following commands issued by the DBA:

SQL>CREATE DIRECTORY my_dir AS \\'/temp/my_files\\';

SQL>GRANT WRITE ON DIRECTORY my_dir TO scott;

View Exhibit 2 and examine the procedure code.

```
CREATE OR REPLACE PROCEDURE sal_status(p_dir IN VARCHAR2,
                                       p_filename IN VARCHAR2) IS
   f_file UTL_FILE.FILE_TYPE;
   CURSOR cur_emp IS
     SELECT last_name,salary
     FROM employees ORDER BY salary;
   BEGIN
       f_file:= UTL_FILE.FOPEN (p_dir, p_filename, 'W');
       UTL_FILE.PUT_LINE(f_file,'REPORT: GENERATED ON' || SYSDATE);
       FOR emp_rec IN cur_emp LOOP
           UTL_FILE.PUT_LINE(f_file, 'EMPLOYEE: ' || emp_rec.last_name ||
                    ' earns: ' || emp_rec.salary);
       END LOOP;
       UTL_FILE.FCLOSE (f_file);
       EXCEPTION
         WHEN UTL_FILE.INVALID_FILEHANDLE THEN
         RAISE_APPLICATION_ERROR(-20001,'Invalid File.');
         WHEN UTL_FILE.WRITE_ERROR THEN
         RAISE_APPLICATION_ERROR(-20002,'Unable to write to file');
   END sal_status;
   /
```

You issue the following command:

SQL>EXEC sal_status (\\'MY_DIR\\', `EMPREPORT.TXT\\')

What is the outcome?

A. It executes successfully and creates the report.

B. It gives an error because the text file should be opened in append mode.

C. It gives an error because the "no data found" condition is not handled to come out of the loop.

D. It gives an error because user SCOTT should be granted both read and write privileges to the directory alias.

E. It executes but no data is written to the text file because the FFLUSH subprogram is not used to write all the data buffered in memory to a file.

Correct Answer: A

QUESTION 2

View Exhibit 1 and examine the structure of the EMP 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 PL/SQL block of code.

```
SQL>SET SERVEROUTPUT ON
SQL>DECLARE
  2       TYPE EmpRecTyp IS RECORD (
  3       emp_name      VARCHAR2(30),
  4       salary        NUMBER(8,2));
  5       FUNCTION highest_salary RETURN EmpRecTyp IS
  6          emp_info EmpRecTyp;
  7          CURSOR cur_emp_cursor IS
  8                   SELECT ename, sal
  9                   FROM emp WHERE sal =(SELECT MAX(sal) FROM emp);
 10      BEGIN
 11        FOR emp_info IN cur_emp_cursor
 12        LOOP
 13                RETURN emp_info;
 14        END LOOP;
 15       END highest_salary;
 16     BEGIN
 17       DBMS_OUTPUT.PUT_LINE('Emp: ' || highest_salary().emp_name ||
 18       ' earns the highest salary of ' || highest_salary().salary);
 19*    END;
SQL> /
```

What is the outcome?

A. It gives an error because the return type is not valid.

B. It gives an error because the record type is not defined within the function.

C. It gives an error because the function call in DBMS_OUTPUT. PUT__LINE is not valid

D. It executes successfully and displays the names and salaries of all employees who earn the highest salary.

E. It executes successfully but does not display the names and salaries of all employees who earn the highest salary.

Correct Answer: E

QUESTION 3

/temp/my_files is an existing folder in the server, facultylist.txt is an existing text file in this folder.

Examine the following commands that are executed by the DBA:

SQL>CREATE DIRECTION my_dir AS `/temp/my_files\\': SQL>GRANT READ ON DIRECTORY my_dir To public:

View the Exhibit and examine the procedure created by user SCOTT to read the list of faculty names from the text file.

```
CREATE OR REPLACE PROCEDURE read_file (dirname VARCHAR2, txtfile VARCHAR2) IS
    f_file UTL_FILE.FILE_TYPE;
    v_buffer VARCHAR2(200);
BEGIN
    f_file := UTL_FILE.FOPEN (dirname, txtfile, 'R');
LOOP
    UTL_FILE.GET_LINE(f_file, v_buffer);
    DBMS_OUTPUT.PUT_LINE(v_buffer);
END LOOP;
UTL_FILE.FCLOSE(f_file);
END read_file;
/
```

SCOTT executes the procedure as follows:

SQL>SET SERVEROUTPUT ON

SQL>EXEC read_file (`MY_DIR\\', FACULTYLIST.TXT\\')

What is the outcome?

A. It goes into an infinite loop.

B. It executes successfully and displays only the list of faculty names.

C. It does not execute and displays an error message because the end-of-file condition is not taken care of.

D. It executes successfully and displays the list of faculty names followed by a "no data found" error message.

Correct Answer: D

QUESTION 4

You execute the following block of code: Which statement is true about the outcome?

```
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2    v_customer VARCHAR2(50) := 'Womansport';
  3    v_credit_rating VARCHAR2(50) := 'EXCELLENT';
  4    BEGIN
  5      DECLARE
  6        v_customer NUMBER(7) := 201;
  7        v_name VARCHAR2(25) := 'Unisports';
  8      BEGIN
  9        v_credit_rating := 'GOOD';
 10        DBMS_OUTPUT.PUT_LINE('Customer ' || v_customer || ' rating is ' ||
 11                          v_credit_rating);
 12      END;
 13        DBMS_OUTPUT.PUT_LINE('Customer ' || v_customer || ' rating is ' ||
 14                          v_credit_rating);
 15 END;
        /
```

A. Both output statements show different values.

B. Both output statements show exactly the same values.

C. It gives an error because the nested blocks are not labeled.

D. It gives an error because the V_CUSTOMER variable cannot have different types in the nested blocks.

Correct Answer: A

QUESTION 5

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

```
Name                    Null?       Type
--------------------    ----------  ---------
PROD_ID                 NOT NULL    NUMBER(4)
PROD_NAME               NOT NULL    VARCHAR2(10)
PROD_LIST_PRICE         NOT NULL    NUMBER(0,2)
PROD_VALID                          VARCHAR2(1)
```

Examine the following code: Which statement is true when the procedure DELETE_DETAILS is invoked?

```
CREATE TABLE debug_output (msg VARCHAR2(100));

CREATE OR REPLACE PROCEDURE debugging (msg VARCHAR2) AS
 PRAGMA AUTONOMOUS_TRANSACTION;
 BEGIN
      INSERT INTO debug_output VALUES (msg);
      COMMIT;
 END debugging;
/
CREATE OR REPLACE PROCEDURE delete_details(p_id NUMBER) AS
msg VARCHAR2(100);
BEGIN
  DELETE FROM products WHERE prod_id = p_id;
  COMMIT;
EXCEPTION
  WHEN OTHERS THEN
  msg := SUBSTR(sqlerrm,100);
  debugging (msg);
END delete_details;
/
```

A. It executes successfully but no error messages get recorded in the DEBUG_OUTPUT table

B. It executes successfully and any error messages get recorded in the DEBUG_OUTPUT table.

C. It gives an error because PRAGMA AUTONOMOUS_TRANSACTION can be used only in packaged procedures.

D. It gives an error because procedures containing PRAGMA AUTONOMOUS_TRANSACTION cannot be called from the exception section.

Correct Answer: A

In this case, the debug output will only occur if there is an exception.

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