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MCA Semester - II

MC10- Database Management System-II (DBMS-II)

Date : 22-May-2014

Time 10.00 to 1.00p.m.

Marks : 50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Que 1 . Answer the following questions**[10]**

1. What is the difference between a named and an anonymous PL/SQL block?
2. List two attributes of the implicit cursor, a developer can use in PL/SQL?
3. List out two methods of collection with its use in PL/SQL.
4. What parameters are passed to the `raise_application_error()` procedure?
5. Give two differences between nested table and Varray.

Que 2[A] Answer the following objective question**[05]**

1. In which areas of a PL/SQL block must the developer place code for user-defined exceptions?
 - a. Command line PL/SQL block call
 - b. Variable declaration section, Executable section, Exception handler
 - c. Only in Exception handler
 - d. None of above
2. An Oracle-defined exception is raised
 - a. By the PL/SQL raise statement
 - b. In the PL/SQL exception handler
 - c. Automatically by Oracle
 - d. By the user
3. A developer would like to use referential data type declaration on a variable. The variable name is `EMPLOYEE_LASTNAME`, and the corresponding table and column is `EMPLOYEE`, and `LASTNAME`, respectively. How would the developer define this variable using referential datatypes?
 - a. Use `employee_lastname employee.lastname%type`.
 - b. `employee.lname%rowtype`.
 - c. Look up datatype for `EMPLOYEE` column on `LASTNAME` table and use that.
 - d. Declare it to be type `LONG`.
4. The command used to open a `CURSOR FOR` loop is
 - a. open
 - b. fetch
 - c. parse
 - d. None of above
5. The two correlation identifier of triggers are
 - a. Now and Then
 - b. New and Old
 - c. Catch and hold
 - d. None of above

Que 2[B] Answer the following question**[05]**

1. The developer issues the following statement:
`CREATE OR REPLACE TRIGGER soccer_fans_snacks_02`
`BEFORE DELETE ON SOCCER_FANS`
`BEGIN`

```
    DELETE FROM soccer_fans_snacks
    WHERE fan_id = :old.fan_id;
```

`END;`

Give reasons why will trigger creation fail? Write a correct statement so it will successfully compiled.

2. Write the output of the following PL/SQL code segment

BEGIN

FOR i IN REVERSE 1..5

LOOP

IF MOD (i, 2)=0 THEN

DBMS_OUTPUT.PUT_LINE (TO_CHAR (i*10));

END IF;

END LOOP;

END;

Que3 Answer the following question.

[10]

1. What is purity level and explain meaning of each as WNDS, RNDS, WNPS and RNPS in stored functions.
2. What is package? And give difference between serially reusable and nonserially reusable packages.

OR

1. What are the benefits of using a package? Describe two parts of a package and their content.
2. How are actual parameters and formal parameters associated? Explain positional notation and named notation with an example.

Que4 Answer the following question.

[10]

1. Differentiate function call by value and call by reference and also give which key word is used to declare function call by reference with an example.
2. Write a use of Pragma Exception_init in user defined exception with an example to redefine primary key violation system error with user defined example.

OR

1. For what keyword 'NOCOPY' is used in function/Procedure parameter? List out three types of parameters? And list out the characteristics of each.
2. Write a PL/SQL to declare a PL/SQL index by table to store, details of 5 books. Details are bookid, bookname, publisher, and price. And display it.

Que5 Consider following tables with business rules.

[10]

Tables:

Screen(screen_id, location, seating_cap)

Movie(movie_id, movie_name, date_of_release)

Current(screen_id, movie_id, date_of_arrival, date_of_closure)

Business Rules:

- Value of screen_id must start with letters 'S'
- Attribute location can be any one of 'FF', 'SF', or 'TF'
- Date_of_arrival must be less than date_of_closure

Write a PL/SQL Code for the following (make a use of cursor and proper exceptions for error handling)

1. To display the name of movie, date of release and its screen id and location.
2. To Display movie details as movie_name, location, screen_id, release date, closer date, which are close within a week.

OR

1. To get the details of movie that closed on date entered by the user.
2. To display year wise total number of movies released.