RB-1863

Second Year B. C. A. (Sem. IV) Examination
April/May – 2010
403 : RDBMS

Time : 3 Hours]   [Total Marks : 70

Instructions :

(1)

> नीचે દર્શાવેલ ✏ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
> **Fillup strictly the details of ✏ signs on your answer book.**
> Name of the Examination :
> ✏ **S. Y. B. C. A. (Sem. 4)**
> Name of the Subject :
> ✏ **403 : RDBMS**
> ✏ Subject Code No. : | 1 | 8 | 6 | 3 | ✏ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

(2)   All questions are **compulsory**.
(3)   Figures to the **right** indicate full marks.

1   Answer in short :   10

   (i)·   What are the independent objects of oracle?

   (ii)· What is new pseudo row used for in trigger?

   (iii) How we can drop primary key in a table which is created before?

   (iv)· How is user defined procedure invoked in a package?

   (v)·   What is CURRVAL pseudo column used for in sequence?

   (vi)   Write down the command to take back DELETE and UPDATE privilege to table Emp from user ABC.

   (vii) List out the methods for end a transaction in oracle.

   (viii) What is database trigger? Can we invoke trigger explicitly?

   (ix)   What is 'dual' table?

   (x)   What is the difference between % NOTFOUND and NO_DATA_ FOUND?

2   Do as directed :   15

   (a)   Define the term RDBMS list out codd's law. Explain   5
          any three in detail.

    (b)   What is savepoint? Explain with suitable example.   **5**

    (c)   Write a PL/SQL code block that will accept an   **5**
         employee no from the user and deduct a salary by
         Rs. 1000 from the input employee no if employee has
         a minimum salary of Rs. 500 after salary is deducted,
         otherwise display message "SALARY IS NOT ENOUGH."

<div align="center">OR</div>

2   Do as directed :   **15**

    (a)   What is DBA? Discuss the basic duties of DBA.   **5**

    (b)   What are the range searching and pattern matching   **5**
         operators in oracle? Explain with syntax and suitable
         example.

    (c)   Write a trigger that will not allow to change emp   **5**
         table data. After office hour i.e. from Monday to Saturday
         (from 9.00 am to 9.00 pm) There is no restriction on
         viewing the data.

3   Do as directed :   **15**

    (a)   What is PL/SQL? Discuss the advantages of PL/SQL   **5**
         in compare to SQL.

<div align="center">OR</div>

    (a)   What is DATA CONSTRAINTS? List out all types of   **5**
         constraint. Explain Foreign Key constraints with ON
         DELETE CASCADE.

    (b)   Write a SQL to create following tables :   **10**
         Stu_mst (rollno, name, ccode, city)
         Fees_mst (rollno, Amt)
         Course_mst (ccode, name)
         The create table SQL should have primary key constraints,
         foreign key constraints.
         Also write SQL to solve following queries.
         (i)   Display the pair of students who are living in the
            same city.
         (ii) Display the students of BCA course
         (iii) Find the total amount collected as Fees from
            student.

4   Do as directed :   **15**

(a)   What is view? Explain restrictions on updateable view.   **5**

(b)   What is nested table? Explain the following   **5**
      attributes with their return type :
      (i)   Exists( )
      (ii)   Prior( )
      (iii) Delete (i,j)
      (iv)   Last.

(c)   How to protect all the work and data in an oracle   **5**
      database? Explain the different protective mechanism.

OR

4   Do as directed :   **15**

(a)   What is overloading procedures and functions?   **5**
      Explain restrictions on overloading procedures and
      functions.

(b)   What is Exception? Discuss Named Exceptions in detail.   **5**

(c)   Explain FOR cursor loop. Discuss advantages of   **5**
      FOR cursor over simple-cursor. Also give suitable
      example for Reverse keyword in FOR loop.

5   Answer the following :   **15**

(a)   Consider following table :   **7**
      Emp (eno (P.K.), name, salary)
      Write a procedure to display top 5 highest getting
      records of Emp along with their name.

(b)   Write a database trigger which generate automatic   **8**
      primary key on table Emp (eno (P.K.), name, salary)
      Like E001, E002.