2111000102050002
B.C.A. F.Y (Sem – II)
Examination November - 2023
Concepts of RDBMS

Seat No:

Student's Signature

[Time: Three hours]   [Max. marks: 70]
Instructions: (1) **All questions are compulsory.**
                      (2) **Figures to the right indicate full marks.**

Q.1   Answer the following questions.   10

1. Write down the command to give SELECT and INSERT privilege to table Student to user EXAM.
2. How we can drop primary key in a table which is created before?
3. Which are the date conversion functions?
4. What is Dual Table?
5. List out restriction of Updatable view?
6. Can we recall deleted records from the oracle? Justify your answer.
7. List out the methods for end a transaction in oracle?
8. What is DDL, DML, and TCL?
9. Explain cross-join.
10. Which function will allow you to substitute a given value for any Null values arising from a select statement?

Q.2   Answer in detail   15

1. Define the term RDBMS list out codd's law? Explain any three in detail.
2. What are the range searching and pattern matching operators in oracle? Explain with syntax and suitable example
3. What is PL/SQL? Discuss the advantages of PL/SQL in compare to SQL.

OR

1. What is Transaction Control Language Commands? Explain Commit, Rollback and Savepoint commands with example.
2. Explain FOR cursor loop? Discuss advantages of FOR cursor over simple-cursor. Also give suitable example for REVERSE keyword in FOR loop.
3. Explain TO_CHAR, TRUNC, ROUND, MONTHS_BETWEEN DATE Functions with examples.

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Q.3   **Answer in detail**   **15**

1. What is Granting and Revoking? Write down the Syntax for GRANT and REVOKE. Also write appropriate command to give permission to user VNSGU2 to update and delete records from itemmaster table original owner of table itemmaster is VNSGU1.
2. What is JOINS? Also explain its types.
3. Write a program which will raise custom exception when insertion records in EMP table, if salary is less than 5000 then do not allow insertion and give appropriate message.

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

1. What is Exception? Discuss custom exception in detail.
2. Write a PL/SQL code to find whether the input number is palindrome or not.
3. Explain Multiple If Conditions in PL/SQL code with example.

Q.4   **Answer in detail**   **15**

1. Explain Concept of Primary Key and Foreign Key.
2. What is inner join? Explain with example.
3. Consider the relation Customer (Custid, Cname, Company, Products).
    Write a PL/SQL code to print the customer names by using select query, cursor and loops.

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

1. Discuss PL/SQL block structure.
2. Consider following table
    Student (rollno (P.K.), name, percentage)
    Write a PL/SQL code to display top 10 records of student along with their class.
    (Class is calculated from percentage).
3. What is cursor? Explain types of cursors with example.

Q.5   **Answer the followings (Any Three)**   **15**

1. Explain %rowtype attribute.
2. What is sequence? How is sequence created? Explain the sequence in detail.
3. Write down structure of PL/SQL block of code.
4. Explain concepts of null, not null and default with example.
5. How to delete duplicate rows from a table. Explain with example.