

Paper Code: 3609

Paper Title: Database: Concepts & Tools

Time: 02:30 Hours

Marks: 70

- Q1 Answer any FIVE from the following: [10]
- Define: Entity and Entity instance
  - Differentiate: Char Vs. Varchar2 data types
  - “Delete and update commands are usually used with where clause” Justify the statement.
  - What is the significance of the dual table in the Oracle?
  - What is self join? Explain with example
  - Differentiate: Trunc() Vs. Round() functions
  - Explain in brief: Concurrency Control
- Q2 Answer any FIVE from the following: [15]
- What is distributed Database?
  - What is the purpose of Synonyms object? Explain with example
  - Explain intersect and union clause with suitable example
  - Mention the advantages/Merits of PL/SQL block.
  - Mention the steps to remove duplicate record from the table.
  - Explain In Predicate with example.
  - What is the purpose of Package object? Explain different components of it.
- Q3 Answer any FIVE from the following: [25]
- What is Data Constraints? Explain not null and unique constraint with example.
  - Explain Group by and having clause with suitable example. Also mention the difference of where clause and having clause
  - What is the purpose of indexing? Explain the rowid format. In which situation automatic indexing is done?
  - What is view object? Explain different types of views with suitable example.
  - What is cursor management? Explain explicit cursor management in detail.
  - What is the purpose of database triggers? Mention the difference between Trigger object and Procedure/Function object in oracle.
  - Write a short note on sequence object

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- Q4 Answer any TWO from the following: (20)
- a. Explain the following functions:
    - 1. Substr()
    - 2. To\_char(date,format)
    - 3. Ltrim()
    - 4. Add\_months()
  - b. What is the Explicit locking? When will you use it? Explain Explicit locking with Lock table statement
  - c. What is Oracle instance? Explain the any 5 background processes in detail