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BCACAC 158

Credit Based Second Semester B.C.A. Degree Examination, April/May 2018
(Common to all Batches)
DATABASE CONCEPTS AND ORACLE

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from Part – A and **any one full** question from **each** unit of Part – B.

PART – A

1. a) What is Metadata and System catalog ? (10×2=20)
b) Why Data Definition language is used ?
c) What is a derived attribute ? Give example.
d) Define key attribute.
e) What is Data Stripping ?
f) What is the Degree of a relation ?
g) What is referential integrity ?
h) How do you rename a table ? Give an example.
i) What is a DUAL table in SQL ?
j) List any two Oracle named exceptions.
k) How to assign a value to a variable in PL /SQL ?
l) Write any two uses of database triggers.

PART – B

Unit – I

2. a) What are the responsibilities of a Database Administrator ?
b) Write any five advantages of DBMS.
c) List and explain the different categories of End users. (5+5+5)
3. a) Explain the three schema architecture of DBMS with diagram.
b) What is data independence ? Explain.
c) Write a note on Database languages. (5+5+5)

P.T.O.

**Unit – II**

4. a) Explain the five different operations on a file.
b) State the usage of Update operations in a relational model.
c) Explain the mechanism used to read data from or write data to the disk. (5+5+5)
5. a) Explain the complete set of relational algebra operations.
b) Explain SELECT and PROJECT operation with examples.
c) Explain how the RAID technology improves the performance of disk access. (5+5+5)

Unit – III

6. a) Explain with example any five string functions in SQL.
b) Explain SELECT and UPDATE command in Oracle with example.
c) Explain RENAME and ALTER command with syntax and example. (5+5+5)
7. a) Write SQL statement to create table :
EMPLOYEE (ENO, NAME, DEPT, DESIGNATION, SALARY)
Write following queries :
i) Find all the employees whose name starts with "k".
ii) Delete the record whose belongs to "ACCOUNTS" department
iii) Add column "AGE" of data type NUMBER of size = 3
iv) Increase the salary of all employees by 10%.
b) How do you insert data into a table from another table ? Explain with syntax and example.
c) Explain different types of data constraints used in SQL. (6+4+5)

Unit – IV

8. a) Explain the PL /SQL program structure with an example.
b) Explain the conditional statements in PL/SQL.
c) Explain cursor attributes. (5+5+5)
9. a) Write the functionality of OPEN, FETCH and CLOSE command in explicit cursor with syntax.
b) What are the different types of trigger ? Explain.
c) What are the advantages of PL/SQL ? (5+5+5)