

Paper Code: 3609

Paper Title: Database Concepts and Tools

Time: 02:30 Hours

Marks: 70

- that's belonged in that designation and also print total salary for that designation.
- e. Explain any five group functions available in Oracle with syntax, purpose and example.
 - f. Explain the Implicit locking in detail
 - g. What is sub query? When we need to use subquery give two practical suitable examples where it is necessary to use subquery.

Q4 Answer any TWO from the following:

[20]

- a. Explain in details view and sequence
- b. Consider the following tables

Product (code, name, rate, qty_avail, min_qty, max_qty)

Sales (sales_no, date, qty, rate, amt)

Purchase (sales_no, date, qty, rate, amt)

Answer the following question

- Displays purchase of each product in January
 - Find product for which maximum quantity has been sold.
 - Write commands to create above table [Assume Constraints]
 - List product for which purchase to be made.
 - Write query to Update quantity available for product whenever sales or purchase made for product P1.
- c. Explain Back ground Processes of an oracle in detail.

M.C.A. Semester:- 3 Examination **April : 2017**

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Q1 Answer any FIVE from the following: [10]

- a. What is constraint? List different types of constraints supported by Oracle.
- b. What is PL/SQL? Explain structure of PL/SQL Block.
- c. What are the differences between delete and truncate command?
- d. Explain the difference between role and privilege?
- e. What is client server architecture?
- f. List the command belongs in DDL and DML
- g. Explain revoke command.

Q2 Answer any FIVE from the following: [15]

- a. Explain importance of database backup and recovery in brief.
- b. How can we define factorial function in oracle? How can we call this function?
- c. State the output of following function
 1. POWER(-3,3)
 2. MOD(33,4)
 3. SQRT(121)
 4. AVG(MAX(44,56),MIN(15,8))
 5. SQRT(400)
 6. ROUND(68/3,0)
- d. Explain the following options of SELECT command with examples: IN, LIKE and BETWEEN.
- e. Mention the advantages of stored procedure.
- f. What are the different types of joins? Explain with example.
- g. List benefits/features of PL/SQL

Q3 Answer any FIVE from the following: [25]

- a. Explain SGA and its memory structure
- b. What is trigger? Explain different types of triggers and explain use of trigger with suitable example.
- c. Explain data types available in oracle with its name, size, value it accepts and range.
- d. Consider following tables

Employee(empno, ename, deptno, salary, designation, doj)
 Department(deptno, dname)

Write a procedure that accept designation and display employee information