

Time : 3:00 Hours

Marks : 100

Q-1 Write a C++ program for the file handling. Perform the following operation with file. 50

1. Read Data from user and write to file.
2. Read that data from file and display the number of line and words on screen.
3. Write that output data to another file.

Q-2 Solve the SQL Queries using following schema. 50

1. Table Name : EMP

EID	NUMBER(5)	Primary Key.
ENAME	VARCHAR(15)	Not Null
AGE	NUMBER(3)	Must Be >= 18 And <= 30
SALARY	NUMBER(6)	Must Be >=25000

2. Table Name : DEPT

DID	NUMBER(5)	Primary Key
DNAME	VARCHAR(20)	
BUDGET	NUMBER(8)	
MANAGER ID	NUMBER(3)	

3. Table Name : WORKS

EID	NUMBER(5)	Foreign Key (EMP-EID)
DID	NUMBER(5)	Foreign Key (DEPT-DID)
PCT_TIME	NUMBER(5)	

An employee can work in more than one department, the pct\_time filed of the Works relation shows the percentage of time that a given employee works in a given department.

Insert minimum 10 records in each table and manage relationship between tables. Perform the below query.

- 1 Display the names and age of each employee who works in both the "Hardware" department and the "Software" department
- 2 Print the name of each employee whose salary exceeds the budget of all of the departments that he or she works in.
- 3 Find the MANAGERID of managers who manage only departments with budgets greater than 100000
- 4 Find the ENAME of managers who manage the departments with the largest Budgets
- 5 If a manager manages more than one department, he or she controls the sum of all the budgets for those departments. Find the MANAGERID of managers who control more than 500000.
- 6 Find the MANAGERID of managers who control the largest amounts.
- 7 Find the ENAME of managers who manage only departments with budgets larger than 100000, but at least one department with budget less than 500000