DBMS

MID LAB Exam

(SET-II)

Part -I

Consider the following relational schema. An employee can work in more than one department the pct_time field of the Works relation shows the percentage of time that a given employee works in a given department.

Emp(eid,ename,age,salary)

Works(eid,did,pct_time)

Dept(did,dname,budget,managerid)

Write the following queries in SQL:

1. Print the names and ages of each employee who works in both the Hardware department and the Software department.

2. For each department with more than 20 full-time-equivalent employees (i.e., where

the part-time and full-time employees add up to at least that many full-time

employees), print the did together with the number of employees that work in

that department.

3. Print the name of each employee whose salary exceeds the budget of all of the

departments that he or she works in.

4. Find the managerids of managers who manage only departments with budgets greater than $1 million.

5. Find the enames of managers who manage the departments with the largest budgets.

6. If a manager manages more than one department, he or she controls the sum of all the udgets for those departments. Find the managerids of managers who control more than $5 million.

7. Find the managerids of managers who control the largest amounts.

8. Find the enames of managers who manage only departments with budgets larger than $1 million, but at least one department with budget less than $5 million.

Part-II(Pl/sql)

1. Create a employee table(emp_no, emp_name, salary). Create a pl/sql block and Take employee no as user input. If that employee's salary is less than 1k then use a function called increment which will return the new salary after adding 100 to the current salary . and update the new salary, if salary <1k then print Already Earning too much.

2. Create a pl/sql block inside that, take a number as input and send this input to a procedure called add, add procedure will add 10 to the number and print the updated number from the main pl/sql block (You have to use out parameter to reflect the change in the main block).