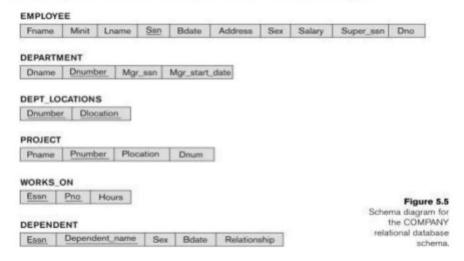
# <u>DBMS LAB ASSIGNMENT 2</u>

# Kandula Lohith AP20110010161 CSE C

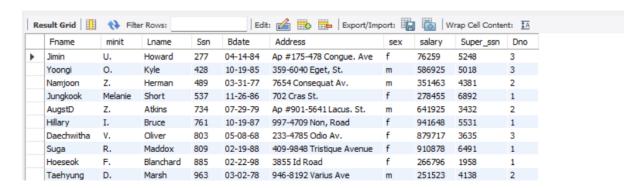
1.

A) Consider the COMPANY database schema shown in the figure.

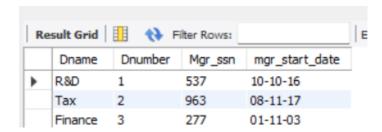


- i.Create a view that has department Name, manager Name and manager salary for every department.
- ii.Create a view that has project Name, controlling depart Name, number of employees, and total hours worked per week on the project for each project with more than one employee working on it.
- iii.Create an updateable view for the relation DEPARTMENT
- B) Create a materialized view for finding average salary of employees, average salary of managers, average salary for each department and department(s) which spend more money on salary for the employees.
  - C) Assume that Dno of EMPLOYEE relation has got NOT NULL constraint. Write a transaction which inserts tuples in to the relations EMPLOYEE and DEPARTMENT without affecting integrity constraints specified in the schema.

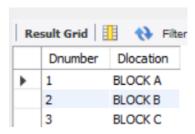
#### **EMPLOYEE TABLE:**



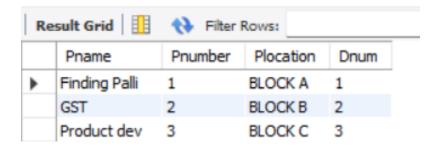
#### **DEPARTMENT TABLE:**



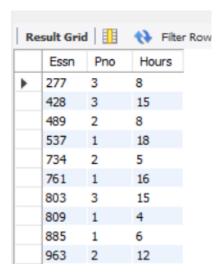
#### **DEPT\_LOCATIONS:**



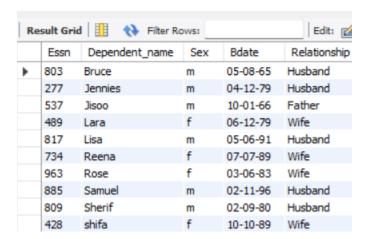
#### **PROJECT:**



# WORKS\_ON:



#### **DEPENDENT:**



# A.1)Create a view that has department name, manager Name and manager salary for every department.

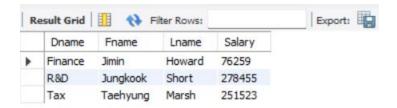
create view manger\_info

as select Dname, Fname, Lname, Salary

from Department, Employee where

Mgr\_ssn = SSN group by Dname

SELECT \* FROM manger\_info;



2)Create a view that has project name, controllolling depart name, number of employees, and total hours worked per week on the project for each project with more than one employee working in it.

create view project\_info as select Pname,

Dname, (select COUNT(\*)

from Works\_On W1

where W1.Pno = P1.Pnumber) as

Num\_Employee,
(select SUM(W2.Hours)

from Works\_On W2

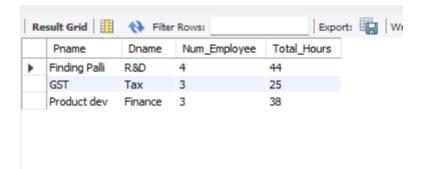
where W2.Pno = P1.Pnumber

group by Pno) as Total\_Hours

from Project P1, Department D1

where P1.Dnum = D1.Dnumber;

SELECT \* FROM project\_info;



# 3)Create an updateable view for the relation DEPARTMENT

Create view departments

As

Select Dname, Dnumber, Mgr\_ssn, Mgr\_start\_date from

DEPARTMENT;

SELECT \* FROM departments;

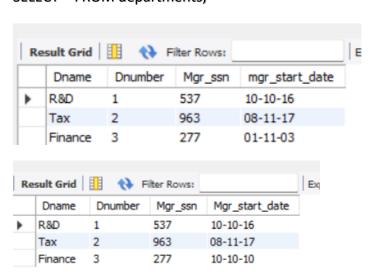
update departments set

mgr\_start\_date="10-10-10"

where

Dnumber=3;

### SELECT \* FROM departments;



B)Create a materialized view for finding average salary of employees, average salary of managers, average salary for each department and department(s) which spend more money on salary for the employees.

```
create view deptavg_salary as select D.Dname,
(avg(salary)) as dept_avg from EMPLOYEE E,

DEPARTMENT D Where E.Dno = D.Dnumber group by

Dname

ORDER BY avg(E.salary) desc limit

1;

SELECT * FROM deptavg_salary;

create view avg_salary

as select avg(e.salary) as emp_avg, avg(m.salary), d.Dname as

name_max_avg_dept from EMPLOYEE e,manager_info m,deptavg_salary d;

SELECT * FROM avg_salary;
```



C)Assume that Dno of EMPLOYEE relation has got NOT NULL constraint. Write a transaction which inserts tuples in to the relations EMPLOYEE and DEPARTMENT without affecting integrity constraints specified in the schema.

```
BEGIN;
INSERT INTO `EMPLOYEE` VALUES ("Manisha"," ","Velaga","999","05-
11-03","204-wallstreet","M","60000","6789","4");
```

COMMIT; select \* from

EMPLOYEE;

BEGIN;

INSERT INTO `DEPARTMENT` VALUES ("Public relations","4","999","0508-22");

COMMIT;

SELECT \* FROM DEPARTMENT;

