

LAB ASSIGNMENT-6

Exercise-VII

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

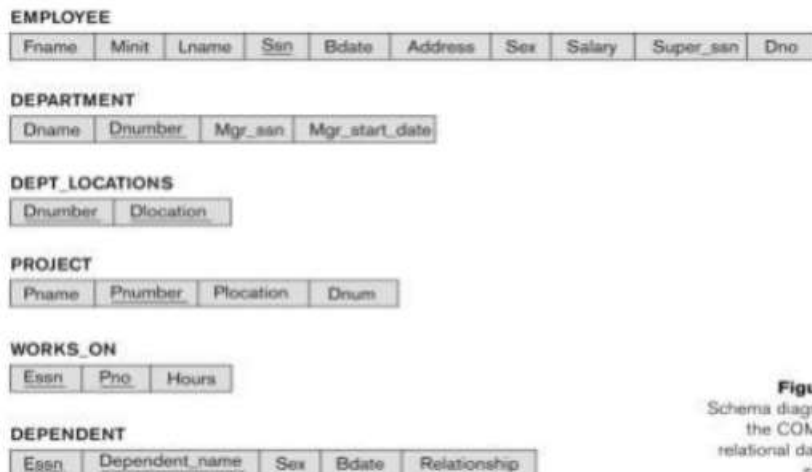


Figure 5.5
Schema diagram for
the COMPANY
relational database
schema.

Table Employee:

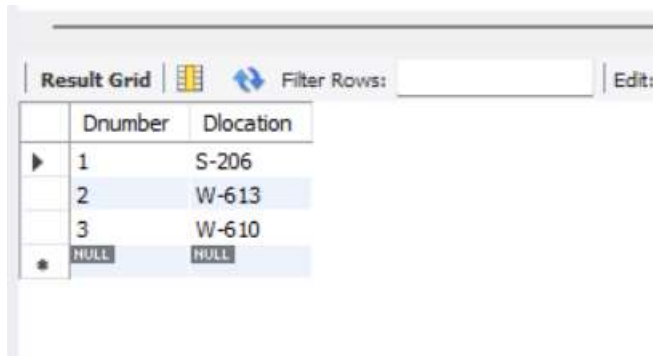
	Fname	minit	Lname	Ssn	Bdate	Address	sex	salary	Super_ssn	Dno
▶	Sravani	Lakshmi	.T	500	22-06-03	702 Cras St.	f	250000	6500	1
	Kavya	Sree	.U	656	11-03-03	Ap #175-478 Congue. Ave	f	850000	5000	3
	Vasanthi	Sai	.A	954	21-11-02	946-8192 Varius Ave	f	370000	4138	2
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Table Department:

	Dname	Dnumber	Mgr_ssn	mgr_start_date
▶	Tax	1	500	17-07-16
	Revenue	2	954	10-11-18
	Finance	3	656	05-12-03
*	NULL	NULL	NULL	NULL

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Table Dept_Locations:



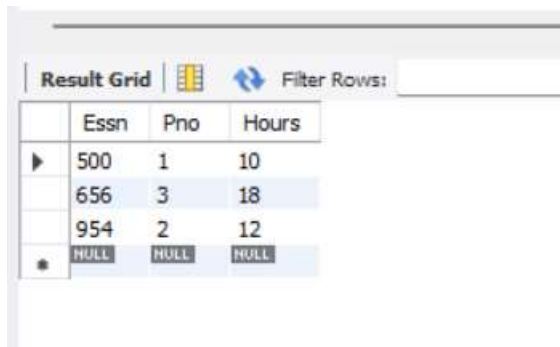
	Dnumber	Dlocation
▶	1	S-206
	2	W-613
	3	W-610
*	NULL	NULL

Table Project:



	Pname	Pnumber	Plocation	Dnum
▶	Text to Speech	1	S-206	1
	Railway Reservation	2	W-613	2
	Product Development	3	W-610	3
*	NULL	NULL	NULL	NULL

Table Works_On:



	Essn	Pno	Hours
▶	500	1	10
	656	3	18
	954	2	12
*	NULL	NULL	NULL

Table Dependent:



	Essn	Dependent_name	Sex	Bdate	Relationship
▶	954	Raj Kumar	f	10-01-66	Father
	500	Sharma	f	05-06-91	Husband
	656	Sriya	f	03-06-83	Wife
*	NULL	NULL	NULL	NULL	NULL

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AP20110010174
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A)

i)

create view manager_info

as select Dname, Fname, Lname, Salary

from Department, Employee

where Mgr_ssn = SSN

group by Dname;

select * from manager_info;



The screenshot shows a database query result grid with the following data:

	Dname	Fname	Lname	Salary
▶	Tax	Sravani	.T	250000
	Finance	Kavya	.U	850000
	Revenue	Vasanthi	.A	370000

ii)

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)

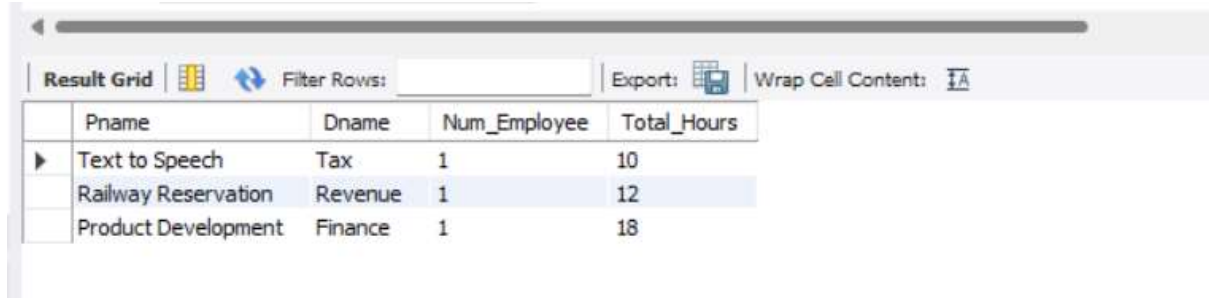
from Works_On W2

where W2.Pno = P1.Pnumber

group by Pno) as Total_Hours

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from Project P1, Department D1
 where P1.Dnum = D1.Dnumber;
 SELECT * FROM project_info;



The screenshot shows a database query result grid with the following columns: Pname, Dname, Num_Employee, and Total_Hours. The data is as follows:

Pname	Dname	Num_Employee	Total_Hours
Text to Speech	Tax	1	10
Railway Reservation	Revenue	1	12
Product Development	Finance	1	18

iii)

Select Dname,Dnumber, Mgr_ssn,Mgr_start_date from
 DEPARTMENT;

SELECT * FROM departments;

update departments set

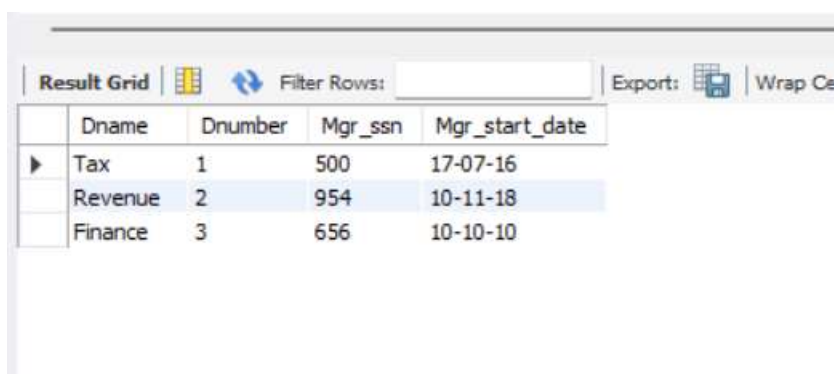
mgr_start_date="10-10-10"

where

Dnumber=3;

SELECT * FROM departments;

After Updation:



The screenshot shows a database query result grid with the following columns: Dname, Dnumber, Mgr_ssn, and Mgr_start_date. The data is as follows:

Dname	Dnumber	Mgr_ssn	Mgr_start_date
Tax	1	500	17-07-16
Revenue	2	954	10-11-18
Finance	3	656	10-10-10

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B)

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

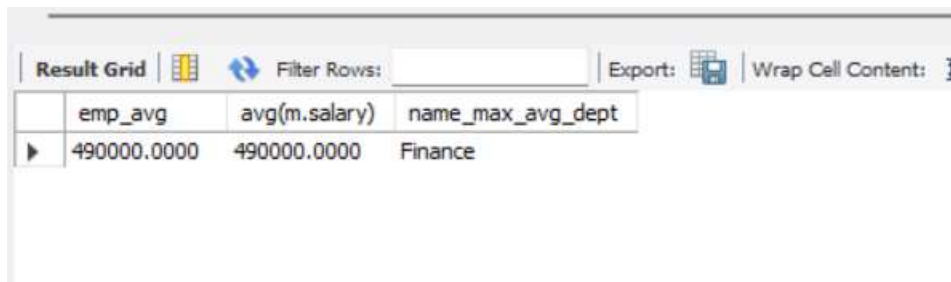
ORDER BY avg(E.salary) desc limit 1;

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;



emp_avg	avg(m.salary)	name_max_avg_dept
490000.0000	490000.0000	Finance

C)

BEGIN;

INSERT INTO `EMPLOYEE` VALUES ("Milika","Divya",".D","589","16-06-2003","989 peoples St.,"f","30000","6000","5");

COMMIT; select * from

EMPLOYEE;

BEGIN;







INSERT INTO `DEPARTMENT` VALUES ("public finance","6","950","5080-2022");

COMMIT;

SELECT * FROM DEPARTMENT;

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Updated Department table:

Result Grid				Filter Rows: <input type="text"/>	Edit: 			Export: 
	Dname	Dnumber	Mgr_ssn	mgr_start_date				
▶	Tax	1	500	17-07-16				
	Revenue	2	954	10-11-18				
	Finance	3	656	10-10-10				
	Public relations	4	999	0508-22				
	public finance	6	950	5080-2022				
•	NULL	NULL	NULL	NULL				

Updated Employee table:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Fname	minit	Lname	Ssn	Bdate	Address	sex	salary	Super_ssn	Dno
▶	Sravani	Lakshmi	.T	500	22-06-03	702 Cras St.	f	250000	6500	1
	Millika	Divya	.D	589	16-06-2003	989 peoples St.	f	30000	6000	5
	Kavya	Sree	.U	656	11-03-03	Ap #175-478 Congue. Ave	f	850000	5000	3
	Vasanthi	Sai	.A	954	21-11-02	946-8192 Varius Ave	f	370000	4138	2
	Sravani	L	Tangeda	989	05-11-03	204-wallstreet	F	60000	6789	4

Sravani Tangeda
AP20110010174
CSE-C