

## 2.DEPARTMENT — EMPLOYEE RELATIONS

**Aim :** Write queries to create and retrieve department and employee relations using relationship constraints, indices, DDL &DML commands, Views, built in functions, set operations, aggregate functions, grouping and ordering clauses

### Tables

**Department** (Dep\_No Primary Key Not Null Number(38), Dep\_Name Not Null Varchar2(15), Loc Not Null Varchar2(15), Mgr Not Null Number(38), Exp\_Bdg Not Null Number(38), Rev\_Bdg Not Null Number(38))

**Employee** (Empno Not Null Number(38), Name Not Null Varchar2(15), Job Not Null Varchar2(15), Salary Not Null Number(38), Comm Varchar2(15), Dep\_No Forien Key Number(38),Sex Varchar2(6))

**Dependant** (Pid Not Null Number(38), Fname Not Null Varchar2(15), Lname Not Null Varchar2(15), Place Not Null Varchar2(15) Empno Not Null Number(38) )

Sample instances of these tables are given below

### Employee

EMPNO	NAME	JOB	SALAR Y	COM M	DEP_ NO	SEX
100	Wilson	CLRK	17000		10	M
101	Smitha	SLSM	25000	1300	40	F
103	Roy	ANLST	35000		30	M
105	Watson	MNGR	45000	0	30	M
109	Alan	MNGR	30000	8000	40	M
110	Tina	CLRK	18000		50	F
200	Karthika	MNGR	29000		10	F
210	Rita	MNGR	36500		50	F
213	Manacy	CLRK	16250		10	F
214	Simpson	DRVR	8250		60	M
215	Deepa	ANLST	27000		60	F
220	Soosan	SLSM	28500	5300	60	F

## Department

DEP_NO	DEP_NAME	LOC	MGR	EXP_BDG	REV_BDG
60	Shipping	Trivandrum	2 15	90000	0
10	Accounting	Cochin	200	100000	0
30	Research	Cochin	105	125000	0
40	Sales	Trichur	109	280000	8000
50	Manufacturing	Kottayam	210	130000	0

## Dependant

PID	FNAME	LNAME	PLACE	EMPNO
1010	Anu	Jose	Trivandrum	214
1020	Neenu	Thomas	Kollam	200
1022	Anamika	Thampi	Kollam	200
1031	Swetha	Das	Kottayam	109

Write an SQL queries for the following

1. Return details of all managers from employee table sorted alphabetically by name.
2. Return details of all employees in department 40 ordered by EMPNO.
3. Return information about all female employee ordered by NAME.
4. Find Minimum, Maximum and Average salary of employees in each department.
5. Find Maximum and Minimum commission paid(COMM),total commission paid and count of employees who were paid with commission.
6. Number of employees listed in each job.
7. Total salary paid to each job in the category.
8. Return all DEPT\_ÑOs in employee table(Ensure that each DEPT\_ÑO appears only once).
9. Return EMPNO,NAME and SALARY of females in department 10.
10. Return EMPNO, NAME and SALARY of all male managers ordered by NAME.
11. Return NAME and JOB of all female sales man and managers.
12. Display EMPNO and NAME of employees in employee table who are a either manager or a clerk in department 50.
13. List the name of employee who are neither a clerk nor a salesman.
14. Return details of all clerks working in departments other than department 10.
15. Find names of employees containing letters U and E.
16. List all employee who earned commission.
17. Find EMPNO ,NAME and JOB of all females who are not managers.

18. Find EMPNO, NAME and SALARY of all employees who earn more than 10000 but less than 40000.
19. Use IN operator to find NAME and EMPNO of EMPLOYEE who are analyst or manager ordered by NAME.
20. Find the employee number, name and salary who been paid commission and whose salary is greater than 30000 .
21. Find DEP-NO , DEP-NAME, SALARY, JOB, SEX ordered by EMPNO within department
22. Display the name of employee and dependant name if dependant is staying in the same location where employee is working .
23. Find company location of employee named Watson.
24. Find name, EMPNO, DEP-NAME for all employee who work in 'Trichur' and order by EMPNO in descending order
25. Retrieve NAME and SALARY of all employee who earned more than average salary.
26. Find NAME, JOB, DEP NAME, LOCATION of all female employee order by EMPNAME.
27. Find the EMPNAME, DEP, NAME of all manager order by department name.
28. Find NAME and DEP-NAME of employee who earns highest salary.
29. Find name, department name, commission of all employee who paid commission order by name.
30. Display employee name and department name of all employees working in departments that has at least three employees. Order the output in alphabetical order first by department name and then by employee name.
31. Find name, department name and commission of all employees who NOT paid commission order by name.
32. List name and salary of all employee in department number 10 and 30.
33. List jobs of employees in department 30 which are not done in department 40.
34. List out job and salary of employees in department 10 and 40 who draw the same salary (result- no record found).
35. Create a view to display EMPNO' NAME ' JOB of employee from employee table who works as manager.
36. Select EMPNO, NAME, JOB and SALARY of employee who works as clerk and having salary greater than 1650.
37. Create an index for column FNAME and LNAME in Dependant table.
38. Delete person with ID=1031 in Dependant table.
39. Return EMPNO, NAME and SALARY of any one of the females in department 10.
40. Delete the employee Karthika with all her dependants.