

A relational database contains two tables EMP & DEPT .

i) Create the above 2 tables with the following structure:

EMP Table

Name	Type	Description
EMPNO	NUMERIC(4) Primary key	Employee no
ENAME	VARCHAR(20) NOT NULL	Employee name
JOB	CHAR(10)	Designation
MGR	NUMERIC(4)	Respective manager's empno
HIREDATE	DATETIME	Date of Joining
SAL	NUMERIC(9,2)	Salary
COMM	NUMERIC(7,2)	Commission
DEPTNO	NUMERIC(2)	Department

DEPT Table

Name	Type	Description
DEPTNO	NUMERIC(2) Primary key	Dept no
DNAME	VARCHAR(20) NOT NULL	Department name
LOC	VARCHAR(10)	Department location

ii) Insert the following records into EMP Table:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800		20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600	300	30
7521	WARD	SALESMAN	7698	1981-02-22	1250	500	30
7566	JONES	MANAGER	7839	1981-04-02	2975		20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250	1400	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850		30
7782	CLARK	MANAGER	7839	1981-06-09	2450		10
7788	SCOTT	ANALYST	7566	1987-04-19	3000		20
7839	KING	PRESIDENT		1981-11-17	5000		10
7844	TURNER	SALESMAN	7698	1981-09-08	1500	0	30
7876	ADAMS	CLERK	7788	1987-05-23	1100		20
7900	JAMES	CLERK	7698	1981-12-03	950		30
7902	FORD	ANALYST	7566	1981-12-03	3000		20
7934	MILLER	CLERK	7782	1982-01-23	1300		10

iii) Insert the following records into DEPT Table:

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

iv) Perform the following queries :

1. SELECT ALL THE RECORDS FROM EMP TABLE
2. SELECT ALL THE RECORDS FROM DEPT TABLE
3. FIND THE EMPLOYEE NAME,SALARY WHO IS WORKING IN DEPT NO 20
4. FIND THE NAME ,JOB,SALARY OF THE EMPLOYEE WHO IS MANAGER
5. FIND THE NAME ,JOB,SALARY OF THE EMPLOYEE WHO IS NOT A MANAGER
6. FIND THOSE EMPLOYEES WHO WERE HIRED BETWEEN 1 MAR 1981 AND 1 JUN 1983
7. FIND EMPLOYEE NAME WHO WERE HIRED IN 1981
8. FIND EMPLOYEE NAME WHOSE NAME STARS WITH 'S'
9. FIND EMPLOYEE NAME WHOSE NAME ENDS WITH 'S'
10. FIND EMPLOYEE NAME WHO ARE WORKING IN DEPT NO 20 & 40.
11. FIND ENAME,JOB AND DEPTNO WHO ARE CLERK & SALESMAN.
12. FIND ENAME WHO ARE MANAGER AND GETTING SALARY MORE THAN 2000
13. FIND ENAME WHO ARE WORKING IN DEPTNO 30 ORDER BY SALARY IN DESC. ORDER

14. FIND OUT THE TOTAL SALARY OF ALL THE EMPLOYEES
15. FIND OUT AVGERAGE SALARY OF ALL THE EMPLOYEES WHO ARE WORKING IN DEPTNO 30
16. FIND OUT THE MINIMUM SALARY OF DEPT NO 20
17. FIND OUT THE MAXIMUM HIREDATE
18. FIND OUT THE TOTAL NUMBER OF EMPLOYEES WHO ARE WORKING IN DEPT NO 10
19. FIND OUT DEPTNO,TOTAL SALARY OF THOSE DEPT WHERE THERE IS NO SALESMAN AND TOTAL SALARY OF DEPT IS MORE THAN 8500
20. FIND ENAME WHO WAS HIRED FIRST
21. FIND TOTAL SALARY FOR THOSE WHO ARE NOT MANAGER
22. FIND OUT JOB AND AVERAGE SALARY FOR ALL THE JOB TYPES WITH MORE THAN 2 EMPLOYEES
23. FIND OUT THE ENAME HAVING MAXIMUM SALARY IN EACH DEPT
24. FIND THE SQUARE ROOT OF THE SALARY IN EMP TABLE
25. FIND AVG SALARY FOR THOSE EMPLOYEES WHOSE JOB='CLERK'
26. FIND TOTAL SALARY FOR THOSE EMPLOYEES WHO WERE HIRED IN 1981
27. CHANGE THE JOB,DEPTNO,SALARY WHOSE EMPNO=7788
28. CREATE TABLE NEW USING ALL RECORDS FROM EMP
29. CHANGE THE JOB OF TABLE NEW TO 'SALES'
30. SELECT ALL RECORDS FROM NEW
31. ADD A NEW COLUMN ADDRESS VARCHAR(10) TO TABLE NEW
32. INSERT THE VALUE TO ADDRESS COLUMN IN TABLE NEW
33. SELECT ALL RECORDS FROM NEW
34. UPDATE THE SIZE OF ADDRESS COLUMN FROM 10 TO 4
35. DELETE TABLE NEW