

Assignment 5

1. List all the employee names, dept name and the city, in department name order.

Query: SELECT ENAME, DNAME, LOC FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO ORDER BY DNAME;

| ENAME | DNAME | LOC |
|--------|------------|----------|
| CLARK | ACCOUNTING | NEW YORK |
| MILLER | ACCOUNTING | NEW YORK |
| KING | ACCOUNTING | NEW YORK |
| FORD | RESEARCH | DALLAS |
| SCOTT | RESEARCH | DALLAS |
| JONES | RESEARCH | DALLAS |
| SMITH | RESEARCH | DALLAS |
| ALLEN | SALES | CHICAGO |
| WARD | SALES | CHICAGO |
| MARTIN | SALES | CHICAGO |
| TURNER | SALES | CHICAGO |
| JAMES | SALES | CHICAGO |
| BLAKE | SALES | CHICAGO |

13 rows selected.

2. List all employees working in Dallas in descending order of salary.

Query: SELECT ENAME, SAL, LOC FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND LOC = 'DALLAS' ORDER BY SAL DESC;

| ENAME | SAL | LOC |
|-------|------|--------|
| SCOTT | 3000 | DALLAS |
| FORD | 3000 | DALLAS |
| JONES | 2975 | DALLAS |
| SMITH | 800 | DALLAS |

3. List employee name, department name, job and location of all employees who work in DALLAS.

Query: SELECT ENAME, DNAME, JOB, LOC FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND LOC = 'DALLAS';

| ENAME | DNAME | JOB | LOC |
|-------|----------|---------|--------|
| JONES | RESEARCH | MANAGER | DALLAS |
| SCOTT | RESEARCH | ANALYST | DALLAS |
| FORD | RESEARCH | ANALYST | DALLAS |
| SMITH | RESEARCH | CLERK | DALLAS |

4. List the employee name, salary, PF, HRA, DA and gross salary; order the result in ascending order of gross. PF is 10% of salary, HRA is 60% of salary and DA is 40% of salary.

Query: SELECT ENAME, SAL, SAL*.1 AS PF, SAL*.6 AS HRA, SAL*.4 AS DA, (SAL*.1 + SAL*.6 + SAL*.4+ SAL) AS GROSS FROM EMP;

| ENAME | SAL | PF | HRA | DA | GROSS |
|--------|------|-------|------|------|--------|
| KING | 5000 | 500 | 3000 | 2000 | 10500 |
| BLAKE | 2850 | 285 | 1710 | 1140 | 5985 |
| CLARK | 2450 | 245 | 1470 | 980 | 5145 |
| JONES | 2975 | 297.5 | 1785 | 1190 | 6247.5 |
| SCOTT | 3000 | 300 | 1800 | 1200 | 6300 |
| FORD | 3000 | 300 | 1800 | 1200 | 6300 |
| SMITH | 800 | 80 | 480 | 320 | 1680 |
| ALLEN | 1600 | 160 | 960 | 640 | 3360 |
| WARD | 1250 | 125 | 750 | 500 | 2625 |
| MARTIN | 1250 | 125 | 750 | 500 | 2625 |
| TURNER | 1500 | 150 | 900 | 600 | 3150 |
| ENAME | SAL | PF | HRA | DA | GROSS |
| JAMES | 950 | 95 | 570 | 380 | 1995 |
| MILLER | 1300 | 130 | 780 | 520 | 2730 |

13 rows selected.

5. Display names and salary of all the employees who report to KING.

Query: SELECT ENAME, SAL FROM EMP WHERE MGR IN (SELECT EMPNO FROM EMP WHERE ENAME = 'KING');

| ENAME | SAL |
|-------|------|
| BLAKE | 2850 |
| CLARK | 2450 |
| JONES | 2975 |

6. List all employees who work in DALLAS and earn more than any employee working in Chicago.

Query: SELECT ENAME, LOC FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND LOC = 'DALLAS' AND SAL > (SELECT MAX(SAL) FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND LOC = 'CHICAGO');

| ENAME | LOC |
|-------|--------|
| JONES | DALLAS |
| SCOTT | DALLAS |
| FORD | DALLAS |

7. List all employees who work in the same post as Smith.

Query: SELECT * FROM EMP WHERE JOB = (SELECT JOB FROM EMP WHERE ENAME = 'SMITH') AND ENAME != 'SMITH';

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-------|------|-----------|------|------|--------|
| 7900 | JAMES | CLERK | 7698 | 03-DEC-81 | 950 | | 30 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

8. Find the job with the highest average salary.

Query: SELECT * FROM (SELECT * FROM (SELECT AVG(SAL) AS AVG_SAL, JOB FROM EMP GROUP BY JOB) ORDER BY AVG_SAL DESC) WHERE ROWNUM <= 1;

| AVG_SAL | JOB |
|---------|-----------|
| 5000 | PRESIDENT |

9. List the top 10 earners in the company.

Query: SELECT ENAME, SAL FROM EMP WHERE ROWNUM<=10 ORDER BY SAL DESC;

| ENAME | SAL |
|--------|------|
| KING | 5000 |
| SCOTT | 3000 |
| FORD | 3000 |
| JONES | 2975 |
| BLAKE | 2850 |
| CLARK | 2450 |
| ALLEN | 1600 |
| MARTIN | 1250 |
| WARD | 1250 |
| SMITH | 800 |

10 rows selected.

10. Display the names of all employees' replacing 'A' with 'a'.

Query: SELECT TRANSLATE(ENAME, 'A', 'a') FROM EMP;

| TRANSLATE(ENAME, 'A', 'a') |
|----------------------------|
| KING |
| BLaKE |
| CLaRK |
| JONES |
| SCOTT |
| FORD |
| SMITH |
| aLLEN |
| WaRD |
| MaRTIN |
| TURNER |
| |
| TRANSLATE(ENAME, 'A', 'a') |
| JaMES |
| MILLER |

13 rows selected.

11. Show the salary of all the employees rounding it to the nearest Rs.1000/-.

Query: SELECT ENAME, SAL, ROUND(SAL,-3) FROM EMP;

| ENAME | SAL | ROUND(SAL, -3) |
|--------|------|----------------|
| KING | 5000 | 5000 |
| BLAKE | 2850 | 3000 |
| CLARK | 2450 | 2000 |
| JONES | 2975 | 3000 |
| SCOTT | 3000 | 3000 |
| FORD | 3000 | 3000 |
| SMITH | 800 | 1000 |
| ALLEN | 1600 | 2000 |
| WARD | 1250 | 1000 |
| MARTIN | 1250 | 1000 |
| TURNER | 1500 | 2000 |
| | | |
| ENAME | SAL | ROUND(SAL, -3) |
| JAMES | 950 | 1000 |
| MILLER | 1300 | 1000 |

13 rows selected.

12. Show the first three and last three characters of the names of all the employees.

Query: SELECT ENAME, SUBSTR(ENAME,1,3), SUBSTR(ENAME, -3, 3) FROM EMP;

| ENAME | SUBSTR(ENAME | SUBSTR(ENAME |
|--------|--------------|--------------|
| KING | KIN | ING |
| BLAKE | BLA | AKE |
| CLARK | CLA | ARK |
| JONES | JON | NES |
| SCOTT | SCO | OTT |
| FORD | FOR | ORD |
| SMITH | SMI | ITH |
| ALLEN | ALL | LEN |
| WARD | WAR | ARD |
| MARTIN | MAR | TIN |
| TURNER | TUR | NER |
| ENAME | SUBSTR(ENAME | SUBSTR(ENAME |
| JAMES | JAM | MES |
| MILLER | MIL | LER |

13 rows selected.