

Assignment – 4

1. Display the names of all employees' right aligning them to 15 characters.

SQL Query:

```
SELECT LPAD (ename,15) FROM emp;
```

Output:

```
SQL> SELECT LPAD (ename,15) FROM emp;
```

```
LPAD(ENAME,15)
```

```
-----  
      KING  
      BLAKE  
      CLARK  
      JONES  
      SCOTT  
      FORD  
      SMITH  
      ALLEN  
      WARD  
      MARTIN  
      TURNER  
      ADAMS  
      JAMES  
      MILLER
```

```
14 rows selected.
```

2. Display the names of all employees' padding them to the right up to 15 characters with '*'. *

SQL Query:

```
SELECT LPAD (ename,15,'*') FROM emp;
```

Output:

```
SQL> SELECT LPAD (ename,15,'*') FROM emp;
```

```
LPAD(ENAME,15,'*')
```

```
-----  
*****KING  
*****BLAKE  
*****CLARK  
*****JONES  
*****SCOTT  
*****FORD  
*****SMITH  
*****ALLEN  
*****WARD  
*****MARTIN  
*****TURNER  
*****ADAMS  
*****JAMES  
*****MILLER
```

```
14 rows selected.
```

3. Find the details of all the managers in department 10 and all clerks in department 20 and all employees who are neither managers nor clerks but whose salary is more than or equal to 2000/-.

SQL Query:

```
SELECT * FROM emp
```

```
WHERE
```

```
  (job='MANAGER' AND deptno=10) OR
```

```
  (job='CLERK' AND deptno=20) OR
```

```
  (job!='MANAGER' AND job!='CLERK' AND sal>=2000);
```

Output:

```
SQL> SELECT * FROM emp
2  WHERE
3    (job='MANAGER' AND deptno=10) OR
4    (job='CLERK' AND deptno=20) OR
5    (job!='MANAGER' AND job!='CLERK' AND sal>=2000);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20

6 rows selected.

4. List all the employees who have joined between 01/02/81 and 31/08/81.**SQL Query:**

```
SELECT ename, hiredate FROM emp
WHERE hiredate BETWEEN '01-FEB-81' AND '31-AUG-81';
```

Output:

```
SQL> SELECT ename, hiredate FROM emp
2  WHERE hiredate BETWEEN '01-FEB-81' AND '31-AUG-81';
```

ENAME	HIREDATE
BLAKE	01-MAY-81
CLARK	09-JUN-81
JONES	02-APR-81
ALLEN	20-FEB-81
WARD	22-FEB-81

5. List all the employees who were joined as manager during 1981.**SQL Query:**

```
SELECT ename, hiredate, job FROM emp
WHERE job='MANAGER' AND TO_CHAR(hiredate,'yy')=81;
```

Output:

```
SQL> SELECT ename, hiredate, job FROM emp
2  WHERE job='MANAGER' AND TO_CHAR(hiredate,'yy')=81;
```

ENAME	HIREDATE	JOB
BLAKE	01-MAY-81	MANAGER
CLARK	09-JUN-81	MANAGER
JONES	02-APR-81	MANAGER

6. List the employees whose salaries are 800, 1600 or 2450.**SQL Query:**

```
SELECT ename, sal FROM emp
WHERE sal IN(800,1600,2450);
```

Output:

```
SQL> SELECT ename, sal FROM emp
2  WHERE sal IN(800,1600,2450);
```

ENAME	SAL
CLARK	2450
SMITH	800
ALLEN	1600

7. List the names of all employees who are either 'clerks' or 'salesman' or 'analyst'.

SQL Query:

```
SELECT ename, job FROM emp
WHERE job IN('CLERK','SALESMAN','ANALYST');
```

Output:

```
SQL> SELECT ename, job FROM emp
2  WHERE job IN('CLERK','SALESMAN','ANALYST');

ENAME      JOB
-----
SCOTT      ANALYST
FORD       ANALYST
SMITH      CLERK
ALLEN      SALESMAN
WARD       SALESMAN
MARTIN     SALESMAN
TURNER     SALESMAN
ADAMS      CLERK
JAMES      CLERK
MILLER     CLERK

10 rows selected.
```

8. List the total number of employees and the average salaries of the different departments.

SQL Query:

```
SELECT COUNT(ename), AVG(sal) FROM emp
GROUP BY deptno;
```

Output:

```
SQL> SELECT COUNT(ename), AVG(sal) FROM emp
2  GROUP BY deptno;

COUNT(ENAME)  AVG(SAL)
-----
6 1566.66667
5      2175
3 2916.66667
```

9. Calculate the average salary of all employees whose department is 30.

SQL Query:

```
SELECT AVG(sal) FROM emp
WHERE deptno=30;
```

Output:

```
SQL> SELECT AVG(sal) FROM emp
2  WHERE deptno=30;

AVG(SAL)
-----
1566.66667
```

10. Calculate the minimum salary earn by a 'clerks'.

SQL Query:

```
SELECT MIN(sal) FROM emp
WHERE job='CLERK';
```

Output:

```
SQL> SELECT MIN(sal) FROM emp
2  WHERE job='CLERK';

MIN(SAL)
-----
800
```

11. Calculate the maximum salary earned by salesman.

SQL Query:

```
SELECT MAX(sal) FROM emp
WHERE job='SALESMAN';
```

Output:

```
SQL> SELECT MAX(sal) FROM emp
2  WHERE job='SALESMAN';

MAX(SAL)
-----
1600
```

12. Find the names of those employees whose immediate boss is in different department.

SQL Query:

```
SELECT ename FROM emp emp1
WHERE deptno!=(SELECT deptno FROM emp emp2
WHERE emp1.mgr=emp2.empno);
```

Output:

```
SQL> SELECT ename FROM emp emp1
2  WHERE deptno!=(SELECT deptno FROM emp emp2
3  WHERE emp1.mgr=emp2.empno);

ENAME
-----
BLAKE
JONES
```

13. Calculate the no. of employees who are not getting any commission.

SQL Query:

```
SELECT COUNT(ename) FROM emp
WHERE comm IS NULL;
```

Output:

```
SQL> SELECT COUNT(ename) from emp
2  WHERE comm IS NULL;

COUNT(ENAME)
-----
10
```

14. Find the department is not having any employee.

SQL Query:

```
SELECT dname, deptno FROM dept
WHERE deptno NOT IN(10,20,30);
```

Output:

```
SQL> SELECT dname, deptno FROM dept
2  WHERE deptno NOT IN(10,20,30);

DNAME          DEPTNO
-----
OPERATIONS          40
```