



**Bahria University**  
Discovering Knowledge

## DATABASE MANAGEMENT SYSTEMS LAB

### Lab Journal #2

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01-134192-030

BSCS-4B

1. List the name, salary of the employees who are clerks.

#### Query:

```
SELECT ENAME, SAL FROM EMP  
WHERE JOB = 'CLERK';
```

#### Output:

Oracle SQL\*Plus

File Edit Search Options Help

SQL\*Plus: Release 10.2.0.3.0 - Production on Thu Mar 18 10:48:02 2021

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Connected to:

Oracle Database 10g Enterprise Edition Release 10.2.0.3.0 - Production  
With the Partitioning, OLAP and Data Mining options

SQL> Malik's Journal 2

P2-0734: unknown command beginning "Malik's Jo..." - rest of line ignored.

```
SQL> SELECT ENAME , SAL FROM EMP  
2 WHERE JOB = 'CLERK';
```

ENAME	SAL
MITH	800
DAMS	1100
JAMES	950
ILLER	1300

SQL> |

2. List the name, job, salary of every employee joined on 'December 17,1980',

**Query:**

```
SELECT ENAME, JOB, SAL FROM EMP
WHERE HIREDATE = '17-DEC-1980';
```

**Output:**

```
SQL> SELECT ENAME , JOB , SAL FROM EMP
2  WHERE HIREDATE='17-DEC-1980';

ENAME      JOB      SAL
-----
SMITH      CLERK      800

SQL> |
```

3. List the department name & deptno for departments having deptno.>=20

**Query:**

```
SELECT DNAME, DEPTNO
FROM DEPT
WHERE DEPTNO>=20;
```

**Output:**

```
SQL> SELECT DNAME,DEPTNO
2  FROM DEPT
3  WHERE DEPTNO>=20;

DNAME      DEPTNO
-----
RESEARCH      20
SALES          30
OPERATIONS    40
```

4. Display employees' names, salary, and manager values of those employees whose salary is 5000 from EMP table using SELECT statement.

**Query:**

```
SELECT ENAME, SAL, MGR
FROM EMP
WHERE SAL = 5000;
```

**Output:**

```
SQL> SELECT ENAME,SAL,MGR
SP2-0734: unknown command beginning "SELECTENAM..." - rest of line ignored.
SQL> SELECT ENAME,SAL , MGR
2  FROM EMP
3  WHERE SAL = 5000;

ENAME      SAL      MGR
-----
KING        5000

SQL> |
```

5. Select dname from DEPT table where location is Islamabad.

**Query:**

```
SELECT DNAME
FROM DEPT
WHERE LOC = 'ISLAMABAD';
```

**Output:**

NO ROWS SELECTED BECAUSE ISLAMABAD DOESNOT EXIST

```
SQL> SELECT DNAME
      2 FROM DEPT
      3 WHERE LOC = 'ISLAMABAD';

no rows selected
```

6. List the employees who have salary between 1000&2000.

**Query:**

```
SELECT *
FROM EMP
WHERE SAL
BETWEEN
1000 AND 2000;
```

**Output:**

```
SQL> SELECT *
      2 FROM EMP
      3 WHERE SAL
      4 BETWEEN
      5 1000 AND 2000;

  EMPNO ENAME      JOB              MGR HIREDATE          SAL       COMM     DEPTNO
-----
   7499 ALLEN      SALESMAN         7698 20-FEB-81        1600        300         30
   7521 WARD        SALESMAN         7698 22-FEB-81        1250        500         30
   7654 MARTIN     SALESMAN         7698 28-SEP-81        1250       1400         30
   7844 TURNER     SALESMAN         7698 08-SEP-81        1500         0          30
   7876 ADAMS      CLERK            7788 23-MAY-87         1100         0          20
   7934 MILLER     CLERK            7782 23-JAN-82         1300         0          10

6 rows selected.
```

7. List the name, salary, commission of the employees where commission is greater than their salary.

**Query:**

```
SELECT ENAME, SAL, COMM
FROM EMP WHERE COMM > SAL;
```

**Output:**

```
SQL> SELECT ENAME, SAL , COMM
2  FROM EMP WHERE COMM>SAL;

ENAME          SAL      COMM
-----
MARTIN          1250      1400
```

8. List the employees who have salary between 1000&2000 (using AND Operator)

**Query:**

```
SELECT *
FROM EMP
WHERE SAL > 1000
AND
SAL <=2000;
```

**Output:**

```
SQL> SELECT *
2  FROM EMP
3  WHERE SAL > 1000
4  AND
5  SAL <=2000;

EMPNO ENAME      JOB          MGR HIREDATE          SAL      COMM      DEPTNO
-----
7499 ALLEN       SALESMAN     7698 20-FEB-81        1600      300        30
7521 WARD        SALESMAN     7698 22-FEB-81        1250      500        30
7654 MARTIN     SALESMAN     7698 28-SEP-81        1250     1400        30
7844 TURNER     SALESMAN     7698 08-SEP-81        1500        0         30
7876 ADAMS      CLERK        7788 23-MAY-87         1100              20
7934 MILLER     CLERK        7782 23-JAN-82         1300              10

6 rows selected.
```

9. List the name, monthly salary and daily salary and hourly salary for employee; assume that there are 22 working days in a month, 8 working hours in a day. Display the rows with column names as monthly, daily & hourly sal.

**Query:**

```
SELECT ENAME,  
SAL*22*8  
AS MONTHLYSALARY,  
SAL*8  
AS DAILY SALARY,  
SAL  
AS HOURLY SALARY  
FROM EMP;
```

**Output:**

```
SQL> SELECT ENAME,  
2 SAL*22*8  
3 AS MONTHLYSALARY,  
4 SAL*8  
5 AS DAILY SALARY,  
6 SAL  
7 AS HOURLY SALARY  
8 FROM EMP;
```

ENAME	MONTHLYSALARY	DAILY SALARY	HOURLY SALARY
SMITH	140800	6400	800
ALLEN	281600	12800	1600
WARD	220000	10000	1250
JONES	523600	23800	2975
MARTIN	220000	10000	1250
BLAKE	501600	22800	2850
CLARK	431200	19600	2450
SCOTT	528000	24000	3000
KING	880000	40000	5000
TURNER	264000	12000	1500
ADAMS	193600	8800	1100

ENAME	MONTHLYSALARY	DAILY SALARY	HOURLY SALARY
JAMES	167200	7600	950
FORD	528000	24000	3000
MILLER	228800	10400	1300

14 rows selected.

10. List the name and empno of managers who earn more than 2000. display the result in alphabetical order of the name.

**Query:**

```
SELECT ENAME, EMPNO
FROM EMP
WHERE JOB = 'MANAGER'
AND
SAL > '2000'
ORDER BY ENAME ASC;
```

**Output:**

```
SQL> SELECT ENAME, EMPNO
2 FROM EMP
3 WHERE JOB= 'MANAGER'
4 AND
5 SAL > '2000'
6 ORDER BY ENAME ASC;
```

ENAME	EMPNO
BLAKE	7698
CLARK	7782
JONES	7566

11. Display all employee names which have 'TH' or 'LL' in them.

**Query:**

```
SELECT ENAME
FROM EMP
WHERE
ENAME LIKE '%TH%'
OR
ENAME LIKE '%LL%';
```

**Output:**

```
SQL> SELECT *
2
SQL> SELECT ENAME
2 FROM EMP
3 WHERE
4 ENAME LIKE '%TH%'
5 OR
6 ENAME LIKE '%LL%';
```

ENAME
SMITH
ALLEN
MILLER

SQL> |

12. List the details of the employees in the depts of 10 & 20 in the order of empno.

**Query:**

```
SELECT *  
FROM EMP  
WHERE  
DEPTNO IN ('10','20')  
ORDER BY EMPNO ASC;
```

**Output:**

```
SQL> SELECT *  
2 FROM EMP  
3 WHERE  
4 DEPTNO IN('10','20')  
5 ORDER BY EMPNO ASC;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

8 rows selected.

13. Display the information about the managers and clerks from the column 'Job' in the table emp, order the result by deptno.

**Query:**

```
SELECT *  
FROM EMP  
WHERE JOB='MANAGER'  
OR  
JOB = 'CLERK'  
ORDER BY  
DEPTNO ASC;
```

**Output:**

```
SQL> SELECT *
  2 FROM EMP
  3 WHERE JOB='MANAGER'
  4 OR
  5 JOB = 'CLERK'
  6 ORDER BY
  7 DEPTNO ASC;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7900	JAMES	CLERK	7698	03-DEC-81	950		30

7 rows selected.

14. List the empnames that do not end with 's'.

### Query:

```
SELECT ENAME
FROM EMP
WHERE ENAME
NOT LIKE '%S';
```

### Output:

```
SQL> SELECT ENAME
  2 FROM EMP
  3 WHERE ENAME
  4 NOT LIKE '%S';
```

ENAME

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

11 rows selected.



15. List the emp names that begin with 'c'.

**Query:**

```
SELECT ENAME
FROM EMP
WHERE ENAME
LIKE 'C%';
```

**Output:**

```
SQL> SELECT ENAME
2 FROM EMP
3 WHERE ENAME
4 LIKE 'C%';

ENAME
-----
CLARK
```

16. List the names of the employees starts with T/t and ends with R/r.

**Query:**

```
SELECT *
FROM EMP
WHERE ENAME
LIKE
'T%R'
OR ENAME
LIKE 'T%r'
OR ENAME
LIKE 't%R'
OR ENAME
LIKE 't%r';
```

**Output:**

```
SQL> SELECT *
2 FROM EMP
3 WHERE ENAME
4 LIKE
5 'T%R'
6 OR ENAME
7 LIKE 'T%r'
8 OR ENAME
9 LIKE 't%R'
10 OR ENAME
11 LIKE 't%r';

EMPNO ENAME      JOB          MGR HIREDATE          SAL      COMM      DEPTNO
-----
7844 TURNER      SALESMAN     7698 08-SEP-81      1500          0         30
```

17. List the name of employees who joined during 1981.

**Query:**

```
SELECT *  
FROM EMP  
WHERE  
HIREDATE  
LIKE  
'%81';
```

**Output:**

```
SQL> SELECT *  
2 FROM EMP  
3 WHERE  
4 HIREDATE  
5 LIKE '%81';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

10 rows selected.

18. List the data as shown below

”Smith has held the position of clerk in dept 20 since 19 june,1982”

**Query:**

```
SELECT ENAME  
|| ' has held the position of '  
JOB  
|| ' in dept '  
DEPTNO  
|| ' since '  
HIREDATE  
FROM EMP;
```

## Output:

```
SQL> SELECT ENAME
2  ||' has held the position of '||
3  JOB
4  ||' in dept '||
5  DEPTNO
6  ||' since '||
7  HIREDATE
8  FROM EMP;

ENAME||'HASHELDTHEPOSITIONOF'||JOB||'INDEPT'||DEPTNO||'SINCE'||HIREDATE
-----
SMITH has held the position of CLERK in dept 20 since 17-DEC-80
ALLEN has held the position of SALESMAN in dept 30 since 20-FEB-81
WARD has held the position of SALESMAN in dept 30 since 22-FEB-81
JONES has held the position of MANAGER in dept 20 since 02-APR-81
MARTIN has held the position of SALESMAN in dept 30 since 28-SEP-81
BLAKE has held the position of MANAGER in dept 30 since 01-MAY-81
CLARK has held the position of MANAGER in dept 10 since 09-JUN-81
SCOTT has held the position of ANALYST in dept 20 since 19-APR-87
KING has held the position of PRESIDENT in dept 10 since 17-NOV-81
TURNER has held the position of SALESMAN in dept 30 since 08-SEP-81
ADAMS has held the position of CLERK in dept 20 since 23-MAY-87

ENAME||'HASHELDTHEPOSITIONOF'||JOB||'INDEPT'||DEPTNO||'SINCE'||HIREDATE
-----
JAMES has held the position of CLERK in dept 30 since 03-DEC-81
FORD has held the position of ANALYST in dept 20 since 03-DEC-81
MILLER has held the position of CLERK in dept 10 since 23-JAN-82

14 rows selected.
```

19. List all rows in employee table by converting commission column to zero.

## Without Update Query:

```
SET LINESIZE 500.
SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM*0, DEPTNO
FROM EMP;
```

## Output:

```
SQL> SET LINESIZE 500;
SQL> SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM*0, DEPTNO
2  FROM EMP;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM*0	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	0	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	0	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	0	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

**With Update Query (I guess this is more suitable but we haven't done update query yet):**

```
UPDATE EMP  
SET COMM = 0;
```

**Output:**

```
SQL> UPDATE EMP  
2 SET COMM = 0;  
  
14 rows updated.
```

**Verify:**

Verifying by Displaying all tables again.

```
SQL> UPDATE EMP  
2 SET COMM = 0;  
  
14 rows updated.
```

```
SQL> SELECT * FROM EMP;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	0	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	0	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	0	30
7566	JONES	MANAGER	7839	02-APR-81	2975	0	20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	0	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	0	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	0	10
7788	SCOTT	ANALYST	7566	19-APR-87	3000	0	20
7839	KING	PRESIDENT		17-NOV-81	5000	0	10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	0	20
7900	JAMES	CLERK	7698	03-DEC-81	950	0	30
7902	FORD	ANALYST	7566	03-DEC-81	3000	0	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	0	10

```
14 rows selected.
```

20. Provide the empno and employee name whose salary is greater than 10,00

**Query:**

```
SELECT EMPNO, ENAME  
FROM EMP  
WHERE  
SAL > 1000;
```

## Output:

```
SQL> SELECT EMPNO,ENAME
2 FROM EMP
3 WHERE
4 SAL >1000
5 ;
```

EMPNO	ENAME
7499	ALLEN
7521	WARD
7566	JONES
7654	MARTIN
7698	BLAKE
7782	CLARK
7788	SCOTT
7839	KING
7844	TURNER
7876	ADAMS
7902	FORD

  

EMPNO	ENAME
7934	MILLER

12 rows selected.

21. List all employees, sorted by job

## Query:

```
SELECT *
FROM EMP
ORDER BY JOB ASC;
```

## Output:

```
SQL> SELECT *
2 FROM EMP
3 ORDER BY JOB ASC;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

  

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30

14 rows selected.

22. List departments which are in Chicago?

**Query:**

```
SELECT *  
FROM DEPT  
WHERE LOC = 'CHICAGO';
```

**Output:**

```
SQL> SELECT *  
2 FROM DEPT  
3 WHERE LOC = 'CHICAGO';
```

DEPTNO	DNAME	LOC
30	SALES	CHICAGO

23. Which employees get salary less than 20,000 and commission greater than 100.

**Note:** I did this task before using update query in task 19 because after update query This Part will give output of no rows selected.

**Query:**

```
SELECT *  
FROM EMP  
WHERE SAL < 20000  
AND  
COMM > 100;
```

**Output:**

```
SQL> SELECT *  
2 FROM EMP  
3 WHERE SAL < 20000  
4 AND  
5 COMM > 100;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

24. List the names and salary of all employees, except for Jones.

**Query:**

```
SELECT *  
FROM EMP  
WHERE ENAME
```

```
NOT LIKE '%JONES%';
```

### Output:

```
SQL> SELECT *
2 FROM EMP
3 WHERE ENAME
4 NOT LIKE '%JONES%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

```
13 rows selected.
```

25. Find the empno, job, and hire date of all Clerks and managers hired before 1990. (use IN)

### Query:

```
SELECT EMPNO, JOB, HIREDATE
FROM EMP
WHERE JOB IN('CLERK','MANAGER')
AND HIREDATE<'01-JAN-1990';
```

### Output:

```
SQL> SELECT EMPNO ,JOB ,HIREDATE
2 FROM EMP
3 WHERE JOB IN('CLERK','MANAGER')
4 AND HIREDATE<'01-JAN-1990';
```

EMPNO	JOB	HIREDATE
7369	CLERK	17-DEC-80
7566	MANAGER	02-APR-81
7698	MANAGER	01-MAY-81
7782	MANAGER	09-JUN-81
7876	CLERK	23-MAY-87
7900	CLERK	03-DEC-81
7934	CLERK	23-JAN-82

```
7 rows selected.
```

26. Find the empno, job, and hire date of all Clerks and managers hired before 1990. (do not use IN)

**Query:**

```
SELECT EMPNO, JOB, HIREDATE
FROM EMP
WHERE JOB='CLERK'
OR
JOB = 'MANAGER'
AND
HIREDATE<'01-JAN-1990';
```

**Output:**

```
SQL> SELECT EMPNO, JOB, HIREDATE
2  FROM EMP
3  WHERE JOB='CLERK'
4  OR
5  JOB = 'MANAGER'
6  AND
7  HIREDATE<'01-JAN-1990' ;

  EMPNO  JOB      HIREDATE
-----
  7369  CLERK      17-DEC-80
  7566  MANAGER      02-APR-81
  7698  MANAGER      01-MAY-81
  7782  MANAGER      09-JUN-81
  7876  CLERK      23-MAY-87
  7900  CLERK      03-DEC-81
  7934  CLERK      23-JAN-82

7 rows selected.
```

27. List the numbers of all employees who do not earn commission.

**Note:** I did this task before using update query in task 19 because after update query This Part will give output of no rows selected.

**Query:**

```
SELECT *
FROM EMP
WHERE COMM
IS NULL;
```

**Output:**



```
SQL> SELECT *
2 FROM EMP
3 WHERE COMM
4 IS NULL;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

10 rows selected.

28. List the departments except research. Without using like

### Query:

```
SELECT *
FROM DEPT
WHERE DNAME
!= 'RESEARCH';
```

### Output:

```
SQL> SELECT *
2 FROM DEPT
3 WHERE DNAME
4 != 'RESEARCH';
```

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

29. List departments which are in Boston?

### Query:

```
SELECT *
FROM DEPT
WHERE LOC = 'BOSTON';
```

### Output:

```
SQL> SELECT *
2 FROM DEPT
3 WHERE LOC = 'BOSTON';
```

DEPTNO	DNAME	LOC
40	OPERATIONS	BOSTON

30. Create a report to display the last name and job title of all employees who do not have a manager.

**Query:**

```
SELECT ENAME, JOB  
FROM EMP  
WHERE MGR IS NULL;
```

**Output:**

```
SQL> SELECT ENAME, JOB  
2 FROM EMP  
3 WHERE MGR IS NULL;
```

ENAME	JOB
-----	-----
KING	PRESIDENT