

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7935	SURESH	SALESMAN					20
7936	SUKESH	SALESMAN					10
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
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
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

16 rows selected.

SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE 'S%';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7935	SURESH	SALESMAN					20
7936	SUKESH	SALESMAN					10
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20

SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE 'S%H';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7935	SURESH	SALESMAN					20
7936	SUKESH	SALESMAN					10
7369	SMITH	CLERK	7902	17-DEC-80	800		20

SQL> ROLLBACK;

Rollback complete.

SQL> R
1* ROLLBACK

Rollback complete.

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE 'S%H';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '_';
```

no rows selected

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '__';
```

no rows selected

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '___';
```

no rows selected

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '_____';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7839	KING	PRESIDENT		17-NOV-81	5000		10
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '__A_';
```

no rows selected

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '__R_';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE '%A%';
```

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
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10

7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30

7 rows selected.

```
SQL> SELECT * FROM EMP
      2 WHERE ENAME LIKE '%A%A%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20

```
SQL> SELECT * FROM EMP
      2 WHERE ENAME LIKE '%A%A%';
```

no rows selected

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

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
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
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

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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.

```
SQL> SELECT * FROM EMP
      2 WHERE ENAME LIKE '%MAN%';
```

no rows selected

```
SQL> SELECT * FROM EMP
      2 WHERE JOB LIKE '%MAN%';
```

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
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

7 rows selected.

```
SQL> SELECT * FROM EMP
      2  WHERE JOB LIKE 'MAN%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

```
SQL> SELECT * FROM EMP
      2  WHERE JOB LIKE '%MAN';
```

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

```
SQL> SELECT * FROM EMP
      2  WHERE JOB NOT LIKE '%MAN';
```

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.

```
SQL> SELECT * FROM EMP
      2  WHERE ENAME LIKE 'SM%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20

```
SQL> SELECT * FROM EMP
      2  WHERE JOB = 'MANAGER';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

```
SQL> SELECT * FROM EMP
2 WHERE 'MANAGER'=JOB;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

```
SQL> SELECT * FROM EMP
2 WHERE ENAME LIKE 'SM%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20

```
SQL> SELECT * FROM EMP
2 WHERE 'SM%' LIKE ENAME;
```

no rows selected

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP;
```

ENAME	DEPTNO	HIREDATE
SMITH	20	17-DEC-80
ALLEN	30	20-FEB-81
WARD	30	22-FEB-81
JONES	20	02-APR-81
MARTIN	30	28-SEP-81
BLAKE	30	01-MAY-81
CLARK	10	09-JUN-81
SCOTT	20	19-APR-87
KING	10	17-NOV-81
TURNER	30	08-SEP-81
ADAMS	20	23-MAY-87

ENAME	DEPTNO	HIREDATE
JAMES	30	03-DEC-81
FORD	20	03-DEC-81
MILLER	10	23-JAN-82

14 rows selected.

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP
```

```
3 WHERE HIREDATE LIKE '%-%-81';
```

ENAME	DEPTNO	HIREDATE
ALLEN	30	20-FEB-81
WARD	30	22-FEB-81
JONES	20	02-APR-81
MARTIN	30	28-SEP-81
BLAKE	30	01-MAY-81
CLARK	10	09-JUN-81
KING	10	17-NOV-81
TURNER	30	08-SEP-81
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

10 rows selected.

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP
3 WHERE HIREDATE LIKE '03-DEC-81';
```

ENAME	DEPTNO	HIREDATE
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP
3* WHERE HIREDATE LIKE '03-DEC-2081'
SQL> /
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP
3* WHERE HIREDATE LIKE '03-DEC-81'
SQL> /
```

ENAME	DEPTNO	HIREDATE
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT ENAME, DEPTNO, HIREDATE
2 FROM EMP
```

```
3* WHERE HIREDATE LIKE '03-DEC-1981'
SQL> /
```

no rows selected

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2   FROM EMP
3   WHERE HIREDATE = '03-DEC-1981';
```

ENAME	DEPTNO	HIREDATE
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2   FROM EMP
3   WHERE HIREDATE LIKE '%-DEC-%';
```

ENAME	DEPTNO	HIREDATE
SMITH	20	17-DEC-80
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2   FROM EMP
3   WHERE HIREDATE LIKE '%-DECEMBER-%';
```

no rows selected

```
SQL> SELECT ENAME, DEPTNO, HIREDATE
2   FROM EMP
3   WHERE HIREDATE = '03-DECEMBER-81';
```

ENAME	DEPTNO	HIREDATE
JAMES	30	03-DEC-81
FORD	20	03-DEC-81

```
SQL> SELECT * FROM DEPT;
```

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

```
SQL> INSERT INTO DEPT
2   VALUES (50, 'SHIPPING_BASE', 'CHENNAI');
```

1 row created.

```
SQL> INSERT INTO DEPT
```

```
2 VALUES (60, 'CARGO%DECK', 'MUMBAI');
```

1 row created.

```
SQL> INSERT INTO DEPT
```

```
2 VALUES (70, 'COURIER%RACK', 'DELHI');
```

1 row created.

```
SQL> SELECT * FROM DEPT
```

```
2 WHERE DNAME LIKE '%_%';
```

DEPTNO	DNAME	LOC
50	SHIPPING_BASE	CHENNAI
60	CARGO%DECK	MUMBAI
70	COURIER%RACK	DELHI
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

7 rows selected.

```
SQL> SELECT * FROM DEPT
```

```
2 WHERE DNAME LIKE '%\_%';
```

no rows selected

```
SQL> SELECT * FROM DEPT
```

```
2 WHERE DNAME LIKE '%\_%' ESCAPE '\';
```

DEPTNO	DNAME	LOC
50	SHIPPING_BASE	CHENNAI

```
SQL> SELECT * FROM DEPT
```

```
2 WHERE DNAME LIKE '%%';
```

DEPTNO	DNAME	LOC
50	SHIPPING_BASE	CHENNAI
60	CARGO%DECK	MUMBAI
70	COURIER%RACK	DELHI
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

7 rows selected.

```
SQL> SELECT * FROM DEPT
```

```
2 WHERE DNAME LIKE '%\%%';
```


no rows selected

```
SQL> SELECT * FROM DEPT
2  WHERE DNAME LIKE '%\%%' ESCAPE '\';
```

DEPTNO	DNAME	LOC
60	CARGO%DECK	MUMBAI
70	COURIER%RACK	DELHI

```
SQL> DELETE FROM DEPT
2  WHERE DEPTNO=70;
```

1 row deleted.

```
SQL> INSERT INTO DEPT
2  VALUES (70, 'COURIER\RACK', 'DELHI');
```

1 row created.

```
SQL> SELECT * FROM DEPT
2  WHERE DNAME LIKE '%@%%' ESCAPE '@';
```

DEPTNO	DNAME	LOC
60	CARGO%DECK	MUMBAI

```
SQL> SELECT * FROM DEPT
2  WHERE DNAME LIKE '%__%' ESCAPE '_';
```

DEPTNO	DNAME	LOC
50	SHIPPING_BASE	CHENNAI

```
SQL> SELECT * FROM DEPT
2  WHERE DNAME LIKE '%%%%' ESCAPE '%';
```

no rows selected

```
SQL> SELECT * FROM DEPT
2  WHERE DNAME LIKE '%\\%' ESCAPE '\\';
```

DEPTNO	DNAME	LOC
70	COURIER\RACK	DELHI

```
SQL> --ORDERING THE DATA BY USING ORDER BY CLAUSE
SQL> SELECT ENAME FROM EMP;
```

ENAME
SMITH
ALLEN
WARD

JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER
ADAMS

ENAME

JAMES
FORD
MILLER

14 rows selected.

SQL> SELECT ENAME,SAL FROM EMP;

ENAME	SAL
-----	-----
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500
ADAMS	1100

ENAME	SAL
-----	-----
JAMES	950
FORD	3000
MILLER	1300

14 rows selected.

SQL> SELECT ENAME FROM EMP
2 ORDER BY ENAME;

ENAME

ADAMS
ALLEN
BLAKE
CLARK
FORD
JAMES
JONES
KING

MARTIN
MILLER
SCOTT

ENAME

SMITH
TURNER
WARD

14 rows selected.

SQL> SELECT SAL FROM EMP
2 ORDER BY SAL ;

SAL

800
950
1100
1250
1250
1300
1500
1600
2450
2850
2975

SAL

3000
3000
5000

14 rows selected.

SQL> SELECT SAL FROM EMP
2 ORDER BY SAL DESC;

SAL

5000
3000
3000
2975
2850
2450
1600
1500
1300
1250
1250

```
SAL
-----
1100
 950
 800
```

14 rows selected.

```
SQL> SELECT HIREDATE FROM EMP
       2 ORDER BY HIREDATE ASC;
```

```
HIREDATE
-----
17-DEC-80
20-FEB-81
22-FEB-81
02-APR-81
01-MAY-81
09-JUN-81
08-SEP-81
28-SEP-81
17-NOV-81
03-DEC-81
03-DEC-81
```

```
HIREDATE
-----
23-JAN-82
19-APR-87
23-MAY-87
```

14 rows selected.

```
SQL> SELECT HIREDATE FROM EMP
       2 ORDER BY HIREDATE DESC;
```

```
HIREDATE
-----
23-MAY-87
19-APR-87
23-JAN-82
03-DEC-81
03-DEC-81
17-NOV-81
28-SEP-81
08-SEP-81
09-JUN-81
01-MAY-81
02-APR-81
```

```
HIREDATE
-----
22-FEB-81
20-FEB-81
```

17-DEC-80

14 rows selected.

```
SQL> SELECT DEPTNO FROM EMP
      2 ORDER BY DEPTNO;
```

DEPTNO

10
10
10
20
20
20
20
20
20
30
30
30

DEPTNO

30
30
30

14 rows selected.

```
SQL> SELECT ENAME,SAL FROM EMP;
```

ENAME	SAL
-------	-----

SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500
ADAMS	1100

ENAME	SAL
-------	-----

JAMES	950
FORD	3000
MILLER	1300

14 rows selected.

```
SQL> SELECT ENAME,SAL FROM EMP
```

```
2 ORDER BY SAL;
```

ENAME	SAL
-----	-----
SMITH	800
JAMES	950
ADAMS	1100
WARD	1250
MARTIN	1250
MILLER	1300
TURNER	1500
ALLEN	1600
CLARK	2450
BLAKE	2850
JONES	2975

ENAME	SAL
-----	-----
SCOTT	3000
FORD	3000
KING	5000

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
2 FROM EMP
3 ORDER BY SAL;
```

ENAME	DEPTNO	JOB	SAL
-----	-----	-----	-----
SMITH	20	CLERK	800
JAMES	30	CLERK	950
ADAMS	20	CLERK	1100
WARD	30	SALESMAN	1250
MARTIN	30	SALESMAN	1250
MILLER	10	CLERK	1300
TURNER	30	SALESMAN	1500
ALLEN	30	SALESMAN	1600
CLARK	10	MANAGER	2450
BLAKE	30	MANAGER	2850
JONES	20	MANAGER	2975

ENAME	DEPTNO	JOB	SAL
-----	-----	-----	-----
SCOTT	20	ANALYST	3000
FORD	20	ANALYST	3000
KING	10	PRESIDENT	5000

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
2 FROM EMP
3 ORDER BY DEPTNO;
```

ENAME	DEPTNO	JOB	SAL
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000
MILLER	10	CLERK	1300
JONES	20	MANAGER	2975
FORD	20	ANALYST	3000
ADAMS	20	CLERK	1100
SMITH	20	CLERK	800
SCOTT	20	ANALYST	3000
WARD	30	SALESMAN	1250
TURNER	30	SALESMAN	1500
ALLEN	30	SALESMAN	1600

ENAME	DEPTNO	JOB	SAL
JAMES	30	CLERK	950
BLAKE	30	MANAGER	2850
MARTIN	30	SALESMAN	1250

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
      2  FROM EMP
      3  ORDER BY DEPTNO,SAL DESC;
```

ENAME	DEPTNO	JOB	SAL
KING	10	PRESIDENT	5000
CLARK	10	MANAGER	2450
MILLER	10	CLERK	1300
SCOTT	20	ANALYST	3000
FORD	20	ANALYST	3000
JONES	20	MANAGER	2975
ADAMS	20	CLERK	1100
SMITH	20	CLERK	800
BLAKE	30	MANAGER	2850
ALLEN	30	SALESMAN	1600
TURNER	30	SALESMAN	1500

ENAME	DEPTNO	JOB	SAL
MARTIN	30	SALESMAN	1250
WARD	30	SALESMAN	1250
JAMES	30	CLERK	950

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
      2  FROM EMP
      3  ORDER BY DEPTNO,SAL;
```

ENAME	DEPTNO	JOB	SAL
-------	--------	-----	-----

MILLER	10	CLERK	1300
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000
SMITH	20	CLERK	800
ADAMS	20	CLERK	1100
JONES	20	MANAGER	2975
SCOTT	20	ANALYST	3000
FORD	20	ANALYST	3000
JAMES	30	CLERK	950
MARTIN	30	SALESMAN	1250
WARD	30	SALESMAN	1250

ENAME	DEPTNO	JOB	SAL
TURNER	30	SALESMAN	1500
ALLEN	30	SALESMAN	1600
BLAKE	30	MANAGER	2850

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
      2  FROM EMP
      3  ORDER BY DEPTNO,SAL,ENAME DESC;
```

ENAME	DEPTNO	JOB	SAL
MILLER	10	CLERK	1300
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000
SMITH	20	CLERK	800
ADAMS	20	CLERK	1100
JONES	20	MANAGER	2975
SCOTT	20	ANALYST	3000
FORD	20	ANALYST	3000
JAMES	30	CLERK	950
WARD	30	SALESMAN	1250
MARTIN	30	SALESMAN	1250

ENAME	DEPTNO	JOB	SAL
TURNER	30	SALESMAN	1500
ALLEN	30	SALESMAN	1600
BLAKE	30	MANAGER	2850

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
      1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL(COMM,0) TOTSAL
      2  FROM EMP
      3* ORDER BY SAL+NVL(COMM,0)
SQL> /
```


ENAME	DEPTNO	SAL	COMM	TOTSAL
SMITH	20	800		800
JAMES	30	950		950
ADAMS	20	1100		1100
MILLER	10	1300		1300
TURNER	30	1500	0	1500
WARD	30	1250	500	1750
ALLEN	30	1600	300	1900
CLARK	10	2450		2450
MARTIN	30	1250	1400	2650
BLAKE	30	2850		2850
JONES	20	2975		2975

ENAME	DEPTNO	SAL	COMM	TOTSAL
FORD	20	3000		3000
SCOTT	20	3000		3000
KING	10	5000		5000

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL(COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY SAL+NVL(COMM,0) DESC
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
FORD	20	3000		3000
SCOTT	20	3000		3000
JONES	20	2975		2975
BLAKE	30	2850		2850
MARTIN	30	1250	1400	2650
CLARK	10	2450		2450
ALLEN	30	1600	300	1900
WARD	30	1250	500	1750
TURNER	30	1500	0	1500
MILLER	10	1300		1300

ENAME	DEPTNO	SAL	COMM	TOTSAL
ADAMS	20	1100		1100
JAMES	30	950		950
SMITH	20	800		800

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY TOTSAL
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
SMITH	20	800		800
JAMES	30	950		950
ADAMS	20	1100		1100
MILLER	10	1300		1300
TURNER	30	1500	0	1500
WARD	30	1250	500	1750
ALLEN	30	1600	300	1900
CLARK	10	2450		2450
MARTIN	30	1250	1400	2650
BLAKE	30	2850		2850
JONES	20	2975		2975

ENAME	DEPTNO	SAL	COMM	TOTSAL
FORD	20	3000		3000
SCOTT	20	3000		3000
KING	10	5000		5000

14 rows selected.

```

SQL> ED
Wrote file afiedt.buf

```

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY HIREDATE
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
SMITH	20	800		800
ALLEN	30	1600	300	1900
WARD	30	1250	500	1750
JONES	20	2975		2975
BLAKE	30	2850		2850
CLARK	10	2450		2450
TURNER	30	1500	0	1500
MARTIN	30	1250	1400	2650
KING	10	5000		5000
JAMES	30	950		950
FORD	20	3000		3000

ENAME	DEPTNO	SAL	COMM	TOTSAL
MILLER	10	1300		1300
SCOTT	20	3000		3000

ADAMS	20	1100		1100
-------	----	------	--	------

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY 1
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
ADAMS	20	1100		1100
ALLEN	30	1600	300	1900
BLAKE	30	2850		2850
CLARK	10	2450		2450
FORD	20	3000		3000
JAMES	30	950		950
JONES	20	2975		2975
KING	10	5000		5000
MARTIN	30	1250	1400	2650
MILLER	10	1300		1300
SCOTT	20	3000		3000

ENAME	DEPTNO	SAL	COMM	TOTSAL
SMITH	20	800		800
TURNER	30	1500	0	1500
WARD	30	1250	500	1750

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY 2 DESC
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
BLAKE	30	2850		2850
TURNER	30	1500	0	1500
ALLEN	30	1600	300	1900
MARTIN	30	1250	1400	2650
WARD	30	1250	500	1750
JAMES	30	950		950
SCOTT	20	3000		3000
JONES	20	2975		2975
SMITH	20	800		800
ADAMS	20	1100		1100

FORD	20	3000		3000
------	----	------	--	------

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
MILLER	10	1300		1300
CLARK	10	2450		2450

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY 4 DESC
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
SMITH	20	800		800
CLARK	10	2450		2450
FORD	20	3000		3000
JAMES	30	950		950
ADAMS	20	1100		1100
JONES	20	2975		2975
BLAKE	30	2850		2850
MILLER	10	1300		1300
SCOTT	20	3000		3000
KING	10	5000		5000
MARTIN	30	1250	1400	2650

ENAME	DEPTNO	SAL	COMM	TOTSAL
WARD	30	1250	500	1750
ALLEN	30	1600	300	1900
TURNER	30	1500	0	1500

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,COMM,SAL+NVL (COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY 5 DESC
SQL> /

```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
FORD	20	3000		3000
SCOTT	20	3000		3000
JONES	20	2975		2975

BLAKE	30	2850		2850
MARTIN	30	1250	1400	2650
CLARK	10	2450		2450
ALLEN	30	1600	300	1900
WARD	30	1250	500	1750
TURNER	30	1500	0	1500
MILLER	10	1300		1300

ENAME	DEPTNO	SAL	COMM	TOTSAL
-----	-----	-----	-----	-----
ADAMS	20	1100		1100
JAMES	30	950		950
SMITH	20	800		800

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```

1  SELECT ENAME,DEPTNO,SAL,SAL+NVL(COMM,0) TOTSAL
2  FROM EMP
3* ORDER BY 5 DESC
SQL> /
ORDER BY 5 DESC
      *
```

ERROR at line 3:
ORA-01785: ORDER BY item must be the number of a SELECT-list expression

```

SQL> SELECT
2  ENAME,
3  DEPTNO,
4  JOB,
5  SAL,
6  COMM,
7  SAL+NVL(COMM,0) TOTSAL
8  FROM EMP
9  ORDER BY 4 DESC ,2,1;
```

ENAME	DEPTNO	JOB	SAL	COMM	TOTSAL
-----	-----	-----	-----	-----	-----
KING	10	PRESIDENT	5000		5000
FORD	20	ANALYST	3000		3000
SCOTT	20	ANALYST	3000		3000
JONES	20	MANAGER	2975		2975
BLAKE	30	MANAGER	2850		2850
CLARK	10	MANAGER	2450		2450
ALLEN	30	SALESMAN	1600	300	1900
TURNER	30	SALESMAN	1500	0	1500
MILLER	10	CLERK	1300		1300
MARTIN	30	SALESMAN	1250	1400	2650
WARD	30	SALESMAN	1250	500	1750

ENAME	DEPTNO	JOB	SAL	COMM	TOTSAL
-------	--------	-----	-----	------	--------

```
-----  
ADAMS          20 CLERK      1100          1100  
JAMES          30 CLERK       950           950  
SMITH          20 CLERK       800           800
```

14 rows selected.

SQL> SPOOL OFF