

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 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 JOB='manager';

no rows selected

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 ENAME, JOB, DEPTNO, SAL
2 FROM EMP
3 WHERE DEPTNO=10;

ENAME	JOB	DEPTNO	SAL
CLARK	MANAGER	10	2450

KING	PRESIDENT	10	5000
MILLER	CLERK	10	1300

```
SQL> SELECT ENAME,DEPTNO,SAL
  2  FROM EMP
  3  WHERE SAL>1600;
```

ENAME	DEPTNO	SAL
JONES	20	2975
BLAKE	30	2850
CLARK	10	2450
SCOTT	20	3000
KING	10	5000
FORD	20	3000

6 rows selected.

```
SQL> SELECT
  2  ENAME||''S DESIGNATION IS '||JOB||' HIRED ON '||HIREDATE EMPLOYEE
  3  FROM EMP;
```

EMPLOYEE

```
-----
SMITH'S DESIGNATION IS CLERK HIRED ON 17-DEC-80
ALLEN'S DESIGNATION IS SALESMAN HIRED ON 20-FEB-81
WARD'S DESIGNATION IS SALESMAN HIRED ON 22-FEB-81
JONES'S DESIGNATION IS MANAGER HIRED ON 02-APR-81
MARTIN'S DESIGNATION IS SALESMAN HIRED ON 28-SEP-81
BLAKE'S DESIGNATION IS MANAGER HIRED ON 01-MAY-81
CLARK'S DESIGNATION IS MANAGER HIRED ON 09-JUN-81
SCOTT'S DESIGNATION IS ANALYST HIRED ON 19-APR-87
KING'S DESIGNATION IS PRESIDENT HIRED ON 17-NOV-81
TURNER'S DESIGNATION IS SALESMAN HIRED ON 08-SEP-81
ADAMS'S DESIGNATION IS CLERK HIRED ON 23-MAY-87
```

EMPLOYEE

```
-----
JAMES'S DESIGNATION IS CLERK HIRED ON 03-DEC-81
FORD'S DESIGNATION IS ANALYST HIRED ON 03-DEC-81
MILLER'S DESIGNATION IS CLERK HIRED ON 23-JAN-82
```

14 rows selected.

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

ENAME	DEPTNO	JOB	SAL
JAMES	30	CLERK	950
FORD	20	ANALYST	3000

```
SQL> SELECT ENAME, DEPTNO, JOB, SAL
```

```

2  FROM EMP
3  WHERE DEPTNO<>20;

```

ENAME	DEPTNO	JOB	SAL
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
MARTIN	30	SALESMAN	1250
BLAKE	30	MANAGER	2850
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500
JAMES	30	CLERK	950
MILLER	10	CLERK	1300

9 rows selected.

```

SQL> SELECT ENAME, DEPTNO, JOB, SAL
2  FROM EMP
3  WHERE JOB<>'CLERK';

```

ENAME	DEPTNO	JOB	SAL
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
JONES	20	MANAGER	2975
MARTIN	30	SALESMAN	1250
BLAKE	30	MANAGER	2850
CLARK	10	MANAGER	2450
SCOTT	20	ANALYST	3000
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500
FORD	20	ANALYST	3000

10 rows selected.

```

SQL> SELECT ENAME, DEPTNO, SAL, SAL * 12 ANNSAL
2  FROM EMP
3  WHERE SAL * 12 >30000;

```

ENAME	DEPTNO	SAL	ANNSAL
JONES	20	2975	35700
BLAKE	30	2850	34200
SCOTT	20	3000	36000
KING	10	5000	60000
FORD	20	3000	36000

```

SQL> SELECT ENAME, DEPTNO, SAL, SAL * 12 ANNSAL
2  FROM EMP
3  WHERE ANNSAL > 30000;

```

WHERE ANNSAL > 30000

*

ERROR at line 3:

ORA-00904: "ANNSAL": invalid identifier

SQL> ED

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```
1  SELECT ENAME, DEPTNO, SAL, COMM, SAL + NVL(COMM, 0) TOTALSAL
2  FROM EMP
3* WHERE SAL + NVL(COMM, 0) >= 2000
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTALSAL
JONES	20	2975		2975
MARTIN	30	1250	1400	2650
BLAKE	30	2850		2850
CLARK	10	2450		2450
SCOTT	20	3000		3000
KING	10	5000		5000
FORD	20	3000		3000

7 rows selected.

```
SQL> SELECT ENAME, DEPTNO
2  FROM EMP
3  WHERE DEPTNO =20;
```

ENAME	DEPTNO
SMITH	20
JONES	20
SCOTT	20
ADAMS	20
FORD	20

```
SQL> SELECT ENAME, JOB
2  FROM EMP
3  WHERE JOB='MANAGER';
```

ENAME	JOB
JONES	MANAGER
BLAKE	MANAGER
CLARK	MANAGER

```
SQL> SELECT ENAME, DEPTNO, JOB
2  FROM EMP
3  WHERE DEPTNO=20 AND JOB='MANAGER';
```

ENAME	DEPTNO	JOB
JONES	20	MANAGER

```
SQL> SELECT ENAME, JOB, SAL
```

```

2  FROM EMP
3  WHERE SAL >=1100;

```

ENAME	JOB	SAL
-----	-----	-----
ALLEN	SALESMAN	1600
WARD	SALESMAN	1250
JONES	MANAGER	2975
MARTIN	SALESMAN	1250
BLAKE	MANAGER	2850
CLARK	MANAGER	2450
SCOTT	ANALYST	3000
KING	PRESIDENT	5000
TURNER	SALESMAN	1500
ADAMS	CLERK	1100
FORD	ANALYST	3000

ENAME	JOB	SAL
-----	-----	-----
MILLER	CLERK	1300

12 rows selected.

```

SQL> ED
Wrote file afiedt.buf

```

```

1  SELECT ENAME,JOB,SAL
2  FROM EMP
3* WHERE JOB='CLERK'
SQL> /

```

ENAME	JOB	SAL
-----	-----	-----
SMITH	CLERK	800
ADAMS	CLERK	1100
JAMES	CLERK	950
MILLER	CLERK	1300

```

SQL> ED
Wrote file afiedt.buf

```

```

1  SELECT ENAME,JOB,SAL
2  FROM EMP
3* WHERE JOB='CLERK' AND SAL >=1100
SQL> /

```

ENAME	JOB	SAL
-----	-----	-----
ADAMS	CLERK	1100
MILLER	CLERK	1300

```

SQL> SELECT ENAME,DEPTNO,SAL
2  FROM EMP
3  WHERE SAL>='CLERK' AND SAL>=1100;

```

```
WHERE SAL>='CLERK' AND SAL>=1100
```

```
*
```

```
ERROR at line 3:
```

```
ORA-01722: invalid number
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1  SELECT ENAME,DEPTNO,SAL
2  FROM EMP
3* WHERE SAL>=1600 AND SAL>=2500
SQL> /
```

ENAME	DEPTNO	SAL
JONES	20	2975
BLAKE	30	2850
SCOTT	20	3000
KING	10	5000
FORD	20	3000

```
SQL> SELECT ENAME,DEPTNO,SAL
2  FROM EMP
3  WHERE DEPTNO=10 AND DEPTNO=20;
```

```
no rows selected
```

```
SQL> SELECT ENAME,DEPTNO,SAL
2  FROM EMP
3  WHERE SAL<=1600 AND SAL<=2500;
```

ENAME	DEPTNO	SAL
SMITH	20	800
ALLEN	30	1600
WARD	30	1250
MARTIN	30	1250
TURNER	30	1500
ADAMS	20	1100
JAMES	30	950
MILLER	10	1300

```
8 rows selected.
```

```
SQL> SELECT ENAME,DEPTNO,SAL
2  FROM EMP
3  WHERE SAL<=1600;
```

ENAME	DEPTNO	SAL
SMITH	20	800
ALLEN	30	1600
WARD	30	1250

MARTIN	30	1250
TURNER	30	1500
ADAMS	20	1100
JAMES	30	950
MILLER	10	1300

8 rows selected.

```
SQL> SELECT ENAME,DEPTNO,SAL
      2  FROM EMP
      3  WHERE SAL>=1600 AND SAL<=2500;
```

ENAME	DEPTNO	SAL
ALLEN	30	1600
CLARK	10	2450

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

```
      1  SELECT ENAME,DEPTNO,SAL,JOB
      2  FROM EMP
      3* WHERE DEPTNO=10 OR JOB='MANAGER'
SQL> /
```

ENAME	DEPTNO	SAL	JOB
JONES	20	2975	MANAGER
BLAKE	30	2850	MANAGER
CLARK	10	2450	MANAGER
KING	10	5000	PRESIDENT
MILLER	10	1300	CLERK

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
      2  FROM EMP
      3  WHERE SAL>=1100 AND JOB='CLERK';
```

ENAME	DEPTNO	JOB	SAL
ADAMS	20	CLERK	1100
MILLER	10	CLERK	1300

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
      2  FROM EMP
      3  WHERE SAL>=1100 OR JOB='CLERK';
```

ENAME	DEPTNO	JOB	SAL
SMITH	20	CLERK	800
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
JONES	20	MANAGER	2975
MARTIN	30	SALESMAN	1250
BLAKE	30	MANAGER	2850

CLARK	10	MANAGER	2450
SCOTT	20	ANALYST	3000
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500
ADAMS	20	CLERK	1100

ENAME	DEPTNO	JOB	SAL
JAMES	30	CLERK	950
FORD	20	ANALYST	3000
MILLER	10	CLERK	1300

14 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB
2   FROM EMP
3   WHERE DEPTNO=10 OR DEPTNO=30;
```

ENAME	DEPTNO	JOB
ALLEN	30	SALESMAN
WARD	30	SALESMAN
MARTIN	30	SALESMAN
BLAKE	30	MANAGER
CLARK	10	MANAGER
KING	10	PRESIDENT
TURNER	30	SALESMAN
JAMES	30	CLERK
MILLER	10	CLERK

9 rows selected.

```
SQL> SELECT ENAME,DEPTNO,SAL
2   FROM EMP
3   WHERE SAL <=1600 OR SAL<=2500;
```

ENAME	DEPTNO	SAL
SMITH	20	800
ALLEN	30	1600
WARD	30	1250
MARTIN	30	1250
CLARK	10	2450
TURNER	30	1500
ADAMS	20	1100
JAMES	30	950
MILLER	10	1300

9 rows selected.

```
SQL> SELECT ENAME,DEPTNO,SAL
2   FROM EMP
3   WHERE SAL<=2500;
```


ENAME	DEPTNO	SAL
SMITH	20	800
ALLEN	30	1600
WARD	30	1250
MARTIN	30	1250
CLARK	10	2450
TURNER	30	1500
ADAMS	20	1100
JAMES	30	950
MILLER	10	1300

9 rows selected.

```
SQL> SELECT ENAME,DEPTNO,SAL
  2   FROM EMP
  3  WHERE SAL<=1100 OR SAL>=2500;
```

ENAME	DEPTNO	SAL
SMITH	20	800
JONES	20	2975
BLAKE	30	2850
SCOTT	20	3000
KING	10	5000
ADAMS	20	1100
JAMES	30	950
FORD	20	3000

8 rows selected.

```
SQL> SELECT ENAME, DEPTNO, JOB, SAL
  2   FROM EMP
  3  WHERE JOB='MANAGER';
```

ENAME	DEPTNO	JOB	SAL
JONES	20	MANAGER	2975
BLAKE	30	MANAGER	2850
CLARK	10	MANAGER	2450

```
SQL> SELECT ENAME, DEPTNO, JOB, SAL
  2   FROM EMP
  3  WHERE JOB<>'MANAGER';
```

ENAME	DEPTNO	JOB	SAL
SMITH	20	CLERK	800
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
MARTIN	30	SALESMAN	1250
SCOTT	20	ANALYST	3000
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500

ADAMS	20	CLERK	1100
JAMES	30	CLERK	950
FORD	20	ANALYST	3000
MILLER	10	CLERK	1300

11 rows selected.

SQL> ED
Wrote file afiedt.buf

```

1  SELECT ENAME, DEPTNO, JOB, SAL
2  FROM EMP
3* WHERE NOT JOB='MANAGER'
SQL> /

```

ENAME	DEPTNO	JOB	SAL
SMITH	20	CLERK	800
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
MARTIN	30	SALESMAN	1250
SCOTT	20	ANALYST	3000
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500
ADAMS	20	CLERK	1100
JAMES	30	CLERK	950
FORD	20	ANALYST	3000
MILLER	10	CLERK	1300

11 rows selected.

```

SQL> SELECT ENAME,DEPTNO, JOB, SAL
2  FROM EMP
3  WHERE SAL=3000;

```

ENAME	DEPTNO	JOB	SAL
SCOTT	20	ANALYST	3000
FORD	20	ANALYST	3000

```

SQL> SELECT ENAME,DEPTNO, JOB, SAL
2  FROM EMP
3  WHERE SAL<>3000;

```

ENAME	DEPTNO	JOB	SAL
SMITH	20	CLERK	800
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
JONES	20	MANAGER	2975
MARTIN	30	SALESMAN	1250
BLAKE	30	MANAGER	2850
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000

TURNER	30	SALESMAN	1500
ADAMS	20	CLERK	1100
JAMES	30	CLERK	950

ENAME	DEPTNO	JOB	SAL

MILLER	10	CLERK	1300

12 rows selected.

```
SQL> SELECT ENAME,DEPTNO, JOB, SAL
  2  FROM EMP
  3  WHERE NOT SAL=3000;
```

ENAME	DEPTNO	JOB	SAL

SMITH	20	CLERK	800
ALLEN	30	SALESMAN	1600
WARD	30	SALESMAN	1250
JONES	20	MANAGER	2975
MARTIN	30	SALESMAN	1250
BLAKE	30	MANAGER	2850
CLARK	10	MANAGER	2450
KING	10	PRESIDENT	5000
TURNER	30	SALESMAN	1500
ADAMS	20	CLERK	1100
JAMES	30	CLERK	950

ENAME	DEPTNO	JOB	SAL

MILLER	10	CLERK	1300

12 rows selected.

```
SQL> SELECT ENAME,DEPTNO, JOB
  2  FROM EMP
  3  WHERE JOB= 'SALESMAN';
```

ENAME	DEPTNO	JOB

ALLEN	30	SALESMAN
WARD	30	SALESMAN
MARTIN	30	SALESMAN
TURNER	30	SALESMAN

```
SQL> SELECT ENAME,DEPTNO, JOB
  2  FROM EMP
  3  WHERE NOT DEPTNO =30 AND JOB='SALESMAN';
```

no rows selected

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

```

1  SELECT ENAME,DEPTNO,JOB
2  FROM EMP
3* WHERE NOT (DEPTNO =30 AND JOB='SALESMAN')
SQL> /

```

ENAME	DEPTNO	JOB
SMITH	20	CLERK
JONES	20	MANAGER
BLAKE	30	MANAGER
CLARK	10	MANAGER
SCOTT	20	ANALYST
KING	10	PRESIDENT
ADAMS	20	CLERK
JAMES	30	CLERK
FORD	20	ANALYST
MILLER	10	CLERK

10 rows selected.

```

SQL> SELECT ENAME,DEPTNO,JOB
2  FROM EMP
3  WHERE DEPTNO<>30 AND JOB='SALESMAN';

```

no rows selected

```

SQL> INSERT INTO EMP(EMPNO,ENAME,DEPTNO,JOB)
2  VALUES(7935,'SURESH',20,'SALESMAN');

```

1 row created.

```

SQL> INSERT INTO EMP(EMPNO,ENAME,DEPTNO,JOB)
2  VALUES(7936,'SUKESH',10,'SALESMAN');

```

1 row created.

```

SQL> SELECT ENAME,DEPTNO,JOB
2  FROM EMP
3  WHERE JOB='SALESMAN';

```

ENAME	DEPTNO	JOB
SURESH	20	SALESMAN
SUKESH	10	SALESMAN
ALLEN	30	SALESMAN
WARD	30	SALESMAN
MARTIN	30	SALESMAN
TURNER	30	SALESMAN

6 rows selected.

```

SQL> SELECT ENAME,DEPTNO,JOB
2  FROM EMP
3  WHERE NOT DEPTNO=10 AND JOB='SALESMAN';

```

ENAME	DEPTNO	JOB
SURESH	20	SALESMAN
ALLEN	30	SALESMAN
WARD	30	SALESMAN
MARTIN	30	SALESMAN
TURNER	30	SALESMAN

```
SQL> SELECT ENAME,DEPTNO,JOB
      2  FROM EMP
      3  WHERE NOT DEPTNO=30 AND JOB='SALESMAN';
```

ENAME	DEPTNO	JOB
SURESH	20	SALESMAN
SUKESH	10	SALESMAN

```
SQL> SELECT ENAME,DEPTNO,JOB
      2  FROM EMP
      3  WHERE DEPTNO<>30 AND JOB='SALESMAN';
```

ENAME	DEPTNO	JOB
SURESH	20	SALESMAN
SUKESH	10	SALESMAN

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

```
      1  SELECT ENAME,DEPTNO,JOB
      2  FROM EMP
      3* WHERE (DEPTNO=30 AND JOB='SALESMAN')
SQL> /
```

ENAME	DEPTNO	JOB
ALLEN	30	SALESMAN
WARD	30	SALESMAN
MARTIN	30	SALESMAN
TURNER	30	SALESMAN

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

```
      1  SELECT ENAME,DEPTNO,JOB
      2  FROM EMP
      3* WHERE NOT (DEPTNO=30 AND JOB='SALESMAN')
SQL> /
```

ENAME	DEPTNO	JOB
SURESH	20	SALESMAN
SUKESH	10	SALESMAN

SMITH	20	CLERK
JONES	20	MANAGER
BLAKE	30	MANAGER
CLARK	10	MANAGER
SCOTT	20	ANALYST
KING	10	PRESIDENT
ADAMS	20	CLERK
JAMES	30	CLERK
FORD	20	ANALYST

ENAME	DEPTNO	JOB
MILLER	10	CLERK

12 rows selected.

SQL> SPOOL OFF