

## QUESTIONS ON OPERATORS:

### 1) LIST ALL THE EMPLOYEES WHOSE COMMISSION IS NULL.

```
SQL> select * from emp
2 where comm 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

### 2) LIST ALL THE EMPLOYEES WHO DON'T HAVE A REPORTING MANAGER.

```
SQL> select * from emp
2 where mgr is null;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10

### 3) LIST ALL THE SALESMEN IN DEPT 30.

```
SQL> select * from emp
2 where job = 'SALESMAN' and deptno= 30;
```

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

### 4) LIST ALL THE SALESMEN IN DEPT NUMBER 30 AND HAVING SALARY GREATER THAN 1500 .

```
SQL> select * from emp
2 where job = 'SALESMAN' and deptno= 30 and sal >1500;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30

**5) LIST ALL THE EMPLOYEES WHOSE NAME STARTS WITH 'S' OR 'A' .**

```
SQL> select ename from emp
      2  where ename like 'S%' or ename like 'A%';
```

ENAME

-----

SMITH  
ALLEN  
SCOTT  
ADAMS

**6) LIST ALL THE EMPLOYEES EXCEPT THOSE WHO ARE WORKING IN DEPT 10 & 20.**

```
SQL> select * from emp
      2  where deptno not in (10,20);
```

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
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30

**7) LIST THE EMPLOYEES WHOSE NAME DOES NOT START WITH 'S'.**

```
SQL> select ename from emp
      2  where ename not like 'S%';
```

ENAME

-----

ALLEN  
WARD  
JONES  
MARTIN  
BLAKE  
CLARK  
KING  
TURNER  
ADAMS  
JAMES  
FORD  
MILLER

**8) LIST ALL THE EMPLOYEES WHO ARE HAVING REPORTING MANAGERS IN DEPT 10 .**

```
SQL> select * from emp
2  where mgr is not null and deptno = 10;
```

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

**9) LIST ALL THE EMPLOYEES WHOSE COMMISSION IS NULL AND WORKING AS CLERK.**

```
SQL> select * from emp
2  where comm is null and job = 'CLERK';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

**10) LIST ALL THE EMPLOYEES WHO DON'T HAVE A REPORTING MANAGER IN DEPTNO 10 OR 30.**

```
SQL> select * from emp
2  where mgr is null and deptno in (10,30);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10

**11) LIST ALL THE SALESMEN IN DEPT 30 WITH SAL MORE THAN 2450.**

```
SQL> select * from emp
2  where deptno = 30 and job = 'SALESMEN' and sal > 2450;

no rows selected
```

**12) LIST ALL THE ANALYST IN DEPT NUMBER 20 AND HAVING SALARY GREATER THAN 2500.**

```
SQL> select * from emp
2  where job = 'ANALYST' and deptno = 20 and sal > 2500;
```

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

**13) LIST ALL THE EMPLOYEES WHOSE NAME STARTS WITH 'M' OR 'J' .**

```
SQL> select ename from emp
2  where ename like 'M%' or ename like 'J%';
```

ENAME

-----

JONES  
MARTIN  
JAMES  
MILLER

---

**14)LIST ALL THE EMPLOYEES WITH ANNUAL SALARY EXCEPT THOSE WHO ARE WORKING IN DEPT 30**

```
SQL> select ename , sal*12 "Annual Salary" ,deptno from emp
2  where deptno <> 30;
```

ENAME	Annual Salary	DEPTNO
-----	-----	-----
SMITH	9600	20
JONES	35700	20
CLARK	29400	10
SCOTT	36000	20
KING	60000	10
ADAMS	13200	20
FORD	36000	20
MILLER	15600	10

---

**15) LIST THE EMPLOYEES WHOSE NAME DOES NOT END WITH 'ES' OR 'R'.**

```
SQL> select ename from emp
2  where ename not like '%ES' and ename not like '%R';
```

ENAME

-----

SMITH  
ALLEN  
WARD  
MARTIN  
BLAKE  
CLARK  
SCOTT  
KING  
ADAMS  
FORD

10 rows selected.

---

**16) LIST ALL THE EMPLOYEES WHO ARE HAVING REPORTING MANAGERS IN DEPT 10 ALONG WITH 10% HIKE IN SALARY.**

```
SQL> select ename, mgr, (sal+(sal*0.1)) "Salary with hike", deptno from emp
2 where mgr is not null and deptno = 10;
```

ENAME	MGR	Salary with hike	DEPTNO
CLARK	7839	2695	10
MILLER	7782	1430	10

**17) DISPLAY ALL THE EMPLOYEE WHO ARE 'SALESMAN'S HAVING 'E' AS THE LAST BUT ONE CHARACTER IN ENAME BUT SALARY HAVING EXACTLY 4 CHARACTER.**

```
SQL> select * from emp
2 where ename like '%E' and job = 'SALESMAN' and sal like '____';

no rows selected
```

**18) DISPLAY ALL THE EMPLOYEE WHO ARE JOINED AFTER YEAR 81 .**

```
SQL> select * from emp
2 where hiredate >'31-DEC-81';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

**19) DISPLAY ALL THE EMPLOYEE WHO ARE JOINED IN FEB .**

```
SQL> select * from emp
2 where hiredate like '%FEB%';
```

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

**20) LIST THE EMPLOYEES WHO ARE NOT WORKING AS MANAGERS AND CLERKS IN DEPT 10 AND 20 WITH A SALARY IN THE RANGE OF 1000 TO 3000.**

```
SQL> select * from emp
2 where job not in ('MANAGER','CLERK') and deptno in(10,20) and sal between 1000 and 3000;
```

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

**21) LIST THE EMPLOYEES WHOSE SALARY NOT IN THE RANGE OF 1000 TO 2000 AND WORKING IN DEPT 10,20 OR 30 EXCEPT ALL SALESMEN.**

```
SQL> select * from emp
2 where sal not between 1000 and 2000 and deptno in (10,20,30) and job <> 'SALESMAN';
```

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
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

**22) LIST THE DEPARTMENT NAMES WHICH ARE HAVING LETTER 'O' IN THEIR LOCATIONS AS WELL AS THEIR DEPARTMENT NAMES .**

```
SQL> select * from dept
2 where dname like '%O%' and loc like '%O%';
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
40	OPERATIONS	BOSTON

**23) DISPLAY ALL THE EMPLOYEES WHOSE JOB HAS STRING 'MAN' IN IT.**

```
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

**24)LIST THE EMPLOYEES WHO ARE HIRED AFTER 82 AND BEFORE 87.**

```
SQL> select * from emp
2 where hiredate between '01-JAN-83' and '31-DEC-86';
```

no rows selected

**25)WAQTD ALL THE DETAILS OF EMPLOYEES HIRED IN NOVEMBER AND DECEMBER.**

```
SQL> select * from emp
2  where hiredate like '%NOV%' or hiredate like '%DEC%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

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**26)LIST ALL THE EMPLOYEE NAMES AND COMMISSION FOR THOSE EMPLOYEES WHO EARN COMMISSION MORE THAN THEIR SALARY.**

```
SQL> select ename ,comm from emp
2  where comm > sal;
```

ENAME	COMM
MARTIN	1400

---

**27)WAQTD NAME AND DESIGNATION FOR ALL THE EMPLOYEES HAVING REPORTING MANAGERS AND ALSO THEIR NAMES STARTING WITH 'S'.**

```
SQL> select ename , job from emp
2  where mgr is not null and ename like 'S%';
```

ENAME	JOB
SMITH	CLERK
SCOTT	ANALYST

---

**28)WAQTD NAME AND SALARY OF ALL THE EMPLOYEES IF THEIR ANNUAL SALARY ENDS WITH '0' .**

```
SQL> select ename , sal from emp
2   where (sal*12) like '%0';
```

ENAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500
ADAMS	1100
JAMES	950
FORD	3000
MILLER	1300

---

**29)WAQTD NAME OF THE EMPLOYEE HAVING AT LEAST 2 L's IN HIS NAME**

```
SQL> select ename from emp
2   where ename like '%L%L%';
```

ENAME
ALLEN
MILLER

---

**30)WAQTD NAME OF THE EMPLOYEES WHOSE NAME STARTS WITH A 'VOWEL'.**

```
SQL> select ename from emp
2   where ename like 'A%' or ename like 'E%' or ename like 'I%'
3   or ename like 'O%' or ename like 'U%';
```

ENAME
ALLEN
ADAMS

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## WHOLE EMP TABLE FOR REFERENCE:

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
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.