

DATA INSERTION

use FCC;

```
CREATE TABLE Dept (  
    DEPTNO INT PRIMARY KEY,  
    DNAME VARCHAR (20) NOT NULL,  
    LOC VARCHAR (20) NOT NULL,  
  
);
```

```
CREATE TABLE Emp (  
    EMPNO INT PRIMARY KEY,  
    ENAME VARCHAR (20) NOT NULL,  
    JOB VARCHAR (25) NOT NULL,  
    MGR INT DEFAULT NULL,  
    HIREDATE VARCHAR (20) NOT NULL,  
    SAL INT NOT NULL,  
    COMM INT DEFAULT NULL,  
    DEPTNO INT NOT NULL,  
    FOREIGN KEY (DEPTNO) REFERENCES Dept (DEPTNO)  
  
);
```

```
INSERT INTO Dept ( DEPTNO, DNAME, LOC) VALUES (10, 'ACCOUNTING', 'NEW YORK');  
INSERT INTO Dept ( DEPTNO, DNAME, LOC) VALUES (20, 'RESEARCH', 'DALLAS');  
INSERT INTO Dept ( DEPTNO, DNAME, LOC) VALUES (30, 'SALES', 'CHICAGO');  
INSERT INTO Dept ( DEPTNO, DNAME, LOC) VALUES (40, 'OEPRATIONS', 'BOSTON');
```

```
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7368, 'SMITH', 'CLERK', 7902, '17-DEC-80', 800, 20 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO ) VALUES (  
    7499, 'ALLEN', 'SALESMAN', 7698, '20-FEB-81', 1600, 300, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO ) VALUES (  
    7521, 'WARD', 'SALESMAN', 7698, '22-FEB-81', 1250, 500, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7566, 'JONES', 'MANAGER', 7839, '02-APR-81', 2975, 20 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO ) VALUES (  
    7654, 'MARTIN', 'SALESMAN', 7698, '28-SEP-81', 1250, 1400, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7698, 'BLAKE', 'MANAGER', 7839, '01-MAY-81', 2850, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7782, 'CLARK', 'MANAGER', 7839, '09-JUN-81', 2450, 10 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7788, 'SCOTT', 'ANALYST', 7566, '09-DEC-82', 3000, 20 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, HIREDATE, SAL, DEPTNO )  
VALUES ( 7839, 'KING', 'PRESIDENT', '17-NOV-81', 5000, 10 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7844, 'TURNER', 'SALESMAN', 7698, '08-SEP-81', 1500, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7876, 'ADAMS', 'CLERK', 7788, '12-JAN-83', 1100, 20 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7900, 'JAMES', 'CLERK', 7698, '03-DEC-81', 950, 30 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7902, 'FORD', 'ANALYST', 7566, '03-DEC-81', 3000, 20 );  
INSERT INTO Emp ( EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, DEPTNO ) VALUES (  
    7934, 'MILLER', 'CLERK', 7782, '23-JAN-82', 1300, 10 );
```

```

/* 1 */
select * from Emp
select * from Dept

```

/* 1 */							
select * from Emp							
select * from Dept							
100 %							
Results Messages							
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	17-DEC-80	800	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	30
4	7566	JONES	MANAGER	7839	02-APR-81	2975	20
5	7654	MAR...	SALESMAN	7698	28-SEP-81	1250	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	10
8	7788	SCOTT	ANALYST	7566	09-DEC-82	3000	20
9	7839	KING	PRESIDE...	NU...	17-NOV-81	5000	10
10	7844	TUR...	SALESMAN	7698	08-SEP-81	1500	30
11	7876	ADAMS	CLERK	7788	12-JAN-83	1100	20
12	7900	JAMES	CLERK	7698	03-DEC-81	950	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3000	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1300	10
DEPTNO	DNAME	LOC					
1	10	ACCOUNTING	NEW YORK				
2	20	RESEARCH	DALLAS				
3	30	SALES	CHICAGO				
4	40	OEPRATIONS	BOSTON				

```

/* 2 */
select SAL, COMM
from emp
where ENAME = 'JONES'

```

/* 1 */	
select * from Emp	
select * from Dept	
/* 2 */	
select SAL, COMM	
from emp	
where ENAME = 'JONES'	
/* 3 */	
select DISTINCT DNAME	
from Dept	
100 %	
Results Messages	
SAL	COMM
1	2975
	NULL

```

/* 3 */
select DISTINCT      DNAME
from Dept

```

/* 3 */

select DISTINCT DNAME
from Dept

/* 4 */

select *

100 %

Results Messages

	DNAME
1	ACCOUNTING
2	OEPRATIONS
3	RESEARCH
4	SALES

```

/* 4 */
select *
from Emp
where ENAME like '%LL%'

```

/* 4 */

select *
from Emp
where ENAME like '%LL%'

100 %

Results Messages

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
2	7934	MILLER	CLERK	7782	23-JAN-82	1300	NULL	10

```

/* 5 */
select *
from Emp
where datediff(day,HIREDATE,SYSDATETIME()) < datediff(day,'08-SEP-81',SYSDATETIME())

```

```

/* 5 */
select *
from Emp
where datediff(day,HIREDATE,SYSDATETIME()) < datediff(day,'08-SEP-81',SYSDATETIME())

```

100 %

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
2	7788	SCOTT	ANALYST	7566	09-DEC-82	3000	NULL	20
3	7839	KING	PRESIDENT	NULL	17-NOV-81	5000	NULL	10
4	7876	ADAMS	CLERK	7788	12-JAN-83	1100	NULL	20
5	7900	JAMES	CLERK	7698	03-DEC-81	950	NULL	30
6	7902	FORD	ANALYST	7566	03-DEC-81	3000	NULL	20
7	7934	MILLER	CLERK	7782	23-JAN-82	1300	NULL	10

```

/* 6 */
select SAL
from Emp
where JOB = 'CLERK' or JOB = 'SALESMAN'

```

```

/* 6 */
select SAL
from Emp
where JOB = 'CLERK' or JOB = 'SALESMAN'

```

100 %

	SAL
1	800
2	1600
3	1250
4	1250
5	1500
6	1100
7	950
8	1300

```
/* 7 */
```

```
select EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, SAL*100 'actual_sal',DEPTNO  
from Emp
```

```
/* 7 */
```

```
select EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, SAL*100 'actual_sal',DEPTNO  
from Emp
```

100 %

Results Messages

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	actual_sal	DEPTNO
1	7369	SMITH	CLERK	7902	17-DEC-80	800	80000	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	160000	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	125000	30
4	7566	JONES	MANAGER	7839	02-APR-81	2975	297500	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	125000	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	285000	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	245000	10
8	7788	SCOTT	ANALYST	7566	09-DEC-82	3000	300000	20
9	7839	KING	PRESIDENT	NULL	17-NOV-81	5000	500000	10
10	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	150000	30
11	7876	ADAMS	CLERK	7788	12-JAN-83	1100	110000	20
12	7900	JAMES	CLERK	7698	03-DEC-81	950	95000	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3000	300000	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1300	130000	10

```
/* 8 */
```

```
select *  
from Emp  
where COMM between 500 and 1200
```

```
/* 8 */
```

```
select *  
from Emp  
where COMM between 500 and 1200
```

```
/* 9 */
```

100 %

Results Messages

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

```

/* 9 */
select *
from Emp
where COMM NOT IN (500,300)

```

```

/* 9 */
select *
from Emp
where COMM NOT IN (500,300)

```

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

```

/* 10 */
select COUNT(DEPTNO) AS 'Grand Total'
from Emp
where DEPTNO = 30

```

```

/* 10 */
select COUNT(DEPTNO) AS 'Grand Total'
from Emp
where DEPTNO = 30

```

	Grand Total
1	6

```

/* 11 */
select EMPNO, ENAME, CONCAT(ENAME, ' is in dept ', DEPTNO) AS 'con', JOB, MGR, HIREDATE,
SAL, DEPTNO
from Emp

```

```

/* 11 */
select EMPNO, ENAME, CONCAT(ENAME, ' is in dept ', DEPTNO) AS 'con', JOB, MGR, HIREDATE, SAL, DEPTNO
from Emp

```

	EMPNO	ENAME	con	JOB	MGR	HIREDATE	SAL	DEPTNO
1	7369	SMITH	SMITH is in dept 20	CLERK	7902	17-DEC-80	800	20
2	7499	ALLEN	ALLEN is in dept 30	SALESMAN	7698	20-FEB-81	1600	30
3	7521	WARD	WARD is in dept 30	SALESMAN	7698	22-FEB-81	1250	30
4	7566	JONES	JONES is in dept 20	MANAGER	7839	02-APR-81	2975	20
5	7654	MARTIN	MARTIN is in dept 30	SALESMAN	7698	28-SEP-81	1250	30
6	7698	BLAKE	BLAKE is in dept 30	MANAGER	7839	01-MAY-81	2850	30
7	7782	CLARK	CLARK is in dept 10	MANAGER	7839	09-JUN-81	2450	10
8	7788	SCOTT	SCOTT is in dept 20	ANALYST	7566	09-DEC-82	3000	20
9	7839	KING	KING is in dept 10	PRESIDENT	NULL	17-NOV-81	5000	10
10	7844	TURNER	TURNER is in dept 30	SALESMAN	7698	08-SEP-81	1500	30
11	7876	ADAMS	ADAMS is in dept 20	CLERK	7788	12-JAN-83	1100	20
12	7900	JAMES	JAMES is in dept 30	CLERK	7698	03-DEC-81	950	30
13	7902	FORD	FORD is in dept 20	ANALYST	7566	03-DEC-81	3000	20
14	7934	MILLER	MILLER is in dept 10	CLERK	7782	23-JAN-82	1300	10

```
/* 12 */
```

```
select Emp.SAL, Dept.DEPTNO, Dept.DNAME, Dept.LOC  
from Emp, Dept  
order by SAL DESC
```

```
/* 12 */  
select Emp.SAL, Dept.DEPTNO, Dept.DNAME, Dept.LOC  
from Emp, Dept  
where Emp.DEPTNO = Dept.DEPTNO  
order by SAL DESC
```

100 %

	SAL	DEPTNO	DNAME	LOC
1	5000	10	ACCOUNTING	NEW YORK
2	3000	20	RESEARCH	DALLAS
3	3000	20	RESEARCH	DALLAS
4	2975	20	RESEARCH	DALLAS
5	2850	30	SALES	CHICAGO
6	2450	10	ACCOUNTING	NEW YORK
7	1600	30	SALES	CHICAGO
8	1500	30	SALES	CHICAGO
9	1300	10	ACCOUNTING	NEW YORK
10	1250	30	SALES	CHICAGO
11	1250	30	SALES	CHICAGO
12	1100	20	RESEARCH	DALLAS
13	950	30	SALES	CHICAGO
14	800	20	RESEARCH	DALLAS

```
/* 13 */
```

```
select Emp.ENAME, Emp.SAL, Emp.JOB, Dept.LOC  
from Emp, Dept  
where (Emp.COMM * 5) = SAL
```

```
/* 13 */  
select Emp.ENAME, Emp.SAL, Emp.JOB, Dept.LOC  
from Emp, Dept  
where (Emp.COMM * 5) = SAL
```

```
/* 14 */
```

00 %

	ENAME	SAL	JOB	LOC
--	-------	-----	-----	-----

```

/* 14 */
select ENAME,SAL, CASE JOB when 'CLERK' then
                                     (CASE SAL when 800 then SAL+300 else SAL end)  else SAL end
'Salary + 300'
from Emp

```

```

/* 14 */
select ENAME,SAL, CASE JOB when 'CLERK' then
                                     (CASE SAL when 800 then SAL+300 else SAL end)  else SAL end 'Salary + 300'
from Emp

```

100 %

	ENAME	SAL	Salary + 300
1	SMITH	800	1100
2	ALLEN	1600	1600
3	WARD	1250	1250
4	JONES	2975	2975
5	MARTIN	1250	1250
6	BLAKE	2850	2850
7	CLARK	2450	2450
8	SCOTT	3000	3000
9	KING	5000	5000
10	TURNER	1500	1500
11	ADAMS	1100	1100
12	JAMES	950	950
13	FORD	3000	3000
14	MILLER	1300	1300

```

/* 15 (Bonus) */
select SAL
from Emp,Dept
where Emp.DEPTNO = Dept.DEPTNO AND ( MGR = 7902 or LOC = 'Boston' )

```

```

/* 15 (Bonus) */
select SAL
from Emp,Dept
where Emp.DEPTNO = Dept.DEPTNO AND ( MGR = 7902 or LOC = 'Boston' )

```

100 %

	SAL
1	800