

## CREATING EMPLOYEE TABLE

```
CREATE TABLE EMP
(
EMPNO INT PRIMARY KEY,
ENAME VARCHAR(25),
JOB VARCHAR(25),
HIREDATE DATE,
SAL NUMERIC(10),
DEPTNO NUMERIC(5),
CONSTRAINT FK FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)
)
```

## CREATING DEPARTMENT TABLE

```
CREATE TABLE DEPT
(
DEPTNO INT PRIMARY KEY,
DNAME VARCHAR(25),
LOC VARCHAR(25)
)
```

### QUES 1. Display all the records from emp table.

SELECT\* FROM EMP

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO	
▶	7369	SMITH	CLERK	17/12/80	800	20	
	7499	ALLEN	SALESMAN	20/02/81	1600	30	
	7521	WARD	SALESMAN	22/02/81	1250	30	
	7566	JONES	MANGER	02/04/81	2975	20	
	7654	MARTIN	SALESMAN	28/09/81	1250	30	
	7698	BLAKE	MANGER	01/05/81	2850	30	
	7777	CHETAN	PREDIDENT	17/09/81	5000	10	
	7782	CLARK	MANGER	09/06/81	2450	10	
	7788	SCOTT	ANALYST	19/04/87	3000	20	
	7839	KING	PRESIDENT	17/09/81	5000	10	
	7844	TURNER	SALESMAN	08/09/81	1500	30	
	7876	ADAMS	CLERK	23/05/87	1100	20	
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### 2.Display all the records from dept table.

SELECT \* FROM DEPT

	DEPTNO	DNAME	LOC	
▶	10	ACCOUNTING	NEW YORK	
	20	RESEARCH	DALLAS	
	30	SALES	CHICAGO	
	40	OPERATIONS	BOSTON	
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### 3.Display all the employee whose salary is higher than 2000.

```
SELECT * FROM EMP WHERE SALARY > 2000
```

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
▶	7566	JONES	MANGER	02/04/81	2975	20
	7698	BLAKE	MANGER	01/05/81	2850	30
	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7782	CLARK	MANGER	09/06/81	2450	10
	7788	SCOTT	ANALYST	19/04/87	3000	20
	7839	KING	PRESIDENT	17/09/81	5000	10
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### 4.Display all employee with job whose hire date Before 28-sep-81.

```
SELECT * FROM EMP WHERE HIREDATE < '1981-09-28'
```

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
▶	7369	SMITH	CLERK	17/12/80	800	20
	7499	ALLEN	SALESMAN	20/02/81	1600	30
	7521	WARD	SALESMAN	22/02/81	1250	30
	7566	JONES	MANGER	02/04/81	2975	20
	7698	BLAKE	MANGER	01/05/81	2850	30
	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7782	CLARK	MANGER	09/06/81	2450	10
	7839	KING	PRESIDENT	17/09/81	5000	10
	7844	TURNER	SALESMAN	08/09/81	1500	30
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### 5.Display all employee number, employee name, job, department name.

```
SELECT EMPNO,ENAME,JOB,DNAME FROM EMP,DEPT WHERE  
EMP.DEPTNO=DEPT.DEPTNO
```

	EMPNO	ENAME	JOB	DNAME	
▶	7369	SMITH	CLERK	RESEARCH	
	7499	ALLEN	SALESMAN	SALES	
	7521	WARD	SALESMAN	SALES	
	7566	JONES	MANGER	RESEARCH	
	7654	MARTIN	SALESMAN	SALES	
	7698	BLAKE	MANGER	SALES	
	7777	CHETAN	PREDIDENT	ACCOUNTII	
	7782	CLARK	MANGER	ACCOUNTII	
	7788	SCOTT	ANALYST	RESEARCH	
	7839	KING	PRESIDENT	ACCOUNTII	
	7844	TURNER	SALESMAN	SALES	
	7876	ADAMS	CLERK	RESEARCH	

## 6.Display all employee whose location is 'DALLAS'.

SELECT EMPNO,ENAME,JOB,LOC FROM EMP,DEPT WHERE  
EMP.DEPTNO = DEPT.DEPTNO AND LOC = 'DALLAS'

	EMPNO	ENAME	JOB	LOC	
▶	7369	SMITH	CLERK	DALLAS	
	7566	JONES	MANGER	DALLAS	
	7788	SCOTT	ANALYST	DALLAS	
	7876	ADAMS	CLERK	DALLAS	

## 7.Display all employee whose department name is 'SALES'.

SELECT EMPNO,ENAME,JOB,DNAMEFROM EMP,DEPT WHERE  
EMP.DEPTNO=DEPT.DEPTNO AND DNAME ='SALES'

	EMPNO	ENAME	JOB	DNAME
▶	7499	ALLEN	SALESMAN	SALES
	7521	WARD	SALESMAN	SALES
	7654	MARTIN	SALESMAN	SALES
	7698	BLAKE	MANGER	SALES
	7844	TURNER	SALESMAN	SALES

**8.Display all employee whose salary is higher than 2000 and location is 'DALAS'.**

SELECT \* FROM EMP,DEPT WHERE SAL>2000 AND LOC='DALLAS'

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO
▶	1782	CLARK	MANAGER	06/09/81	2450	10
	7566	JONES	MANAGER	04/02/81	2975	20
	7698	BLAKE	MANAGER	05/01/81	2850	30
	7788	SCOTT	ANALYST	04/19/87	3000	20
	7839	KING	PRESIDENT	11/17/81	5000	10

**9.Display all employee whose job is 'SALESMAN' and location not in 'CHICAGO'.**

SELECT \* FROM EMP,DEPT WHERE JOB='SALESMAN' AND LOC='CHICAGO'

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO	DEPTNO	DNAME	LOC
▶	7499	ALLEN	SALESMAN	20/02/81	1600	30	30	SALES	CHICAGO
	7521	WARD	SALESMAN	22/02/81	1250	30	30	SALES	CHICAGO
	7654	MARTIN	SALESMAN	28/09/81	1250	30	30	SALES	CHICAGO
	7844	TURNER	SALESMAN	08/09/81	1500	30	30	SALES	CHICAGO

**10.Change the job of employee whose number is 7521 from 'SALESMAN' to 'MANAGER'.**

UPDATE EMP SET JOB='MANAGER' WHERE EMPNO=7521

7499	ALLEN	SALESMAN	20/02/81	1600	30
7521	WARD	MANAGER	22/02/81	1250	30
7566	JONES	MANAGER	02/04/81	2975	20

### 11.Display all employee whose location starts from 'C'.

SELECT \* FROM EMP,DEPT WHERE LOC LIKE 'C%'

	EMPNO	ENAME	JOB	HIREDATE	SALARY	DEPTNO	DEPTNO	DNAME	LOC
▶	1782	CLARK	MANAGER	06/09/81	2450	10	30	SALES	CHICAGO
	7369	SMITH	CLERK	12/17/80	800	20	30	SALES	CHICAGO
	7499	ALLEN	SALESMAN	02/20/81	1600	30	30	SALES	CHICAGO
	7521	WARD	MANAGER	02/22/81	1250	30	30	SALES	CHICAGO
	7566	JONES	MANAGER	04/02/81	2975	20	30	SALES	CHICAGO
	7654	MARTIN	SALESMAN	09/28/81	1250	30	30	SALES	CHICAGO
	7698	BLAKE	MANAGER	05/01/81	2850	30	30	SALES	CHICAGO
	7788	SCOTT	ANALYST	04/19/87	3000	20	30	SALES	CHICAGO
	7839	KING	PRESIDENT	11/17/81	5000	10	30	SALES	CHICAGO

Record 1 of 9

SELECT \* FROM TBL EMP, DEPT WHERE LOC LIKE 'C%'

### 12.Delete the record whose name is 'KING'.

DELETE FROM EMP WHERE ENAME='KING'

### 13.Undo the above command.

rollback


### 14.Display all the records in descending order of salary.

SELECT \* FROM EMP ORDER BY SAL DESC

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
▶	7839	KING	PRESIDENT	17/09/81	5000	10
	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7788	SCOTT	ANALYST	19/04/87	3000	20
	7566	JONES	MANGER	02/04/81	2975	20
	7698	BLAKE	MANGER	01/05/81	2850	30
	7782	CLARK	MANGER	09/06/81	2450	10
	7499	ALLEN	SALESMAN	20/02/81	1600	30
	7844	TURNER	SALESMAN	08/09/81	1500	30
	7654	MARTIN	SALESMAN	28/09/81	1250	30
	7521	WARD	MANAGER	22/02/81	1250	30
	7876	ADAMS	CLERK	23/05/87	1100	20
	7369	SMITH	CLERK	17/12/80	800	20
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**QUES.15 Find the employee who have the maximum salary.**

SELECT \* FROM EMP WHERE SAL=(SELECT MAX(SAL) FROM EMP)

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7839	KING	PRESIDENT	17/09/81	5000	10
						

**QUES 16.Find the employee who have second highest salary.**

SELECT \* FROM EMP WHERE SAL =  
(SELECT MAX(SAL) FROM EMP WHERE  
SAL< (SELECT MAX(SAL) FROM EMP))

EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
7788	SCOTT	ANALYST	19/04/87	3000	20

**QUES 17 Find the employee who have third highest salary.**

SELECT \* FROM EMP

WHERE SAL = (SELECT MAX (SAL ) FROM EMP

WHERE SAL < (SELECT MAX(SAL) FROM EMP

WHERE SAL< (SELECT MAX(SAL) FROM EMP)))

EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
7566	JONES	MANGER	02/04/81	2975	20

**QUES 18 Display all the employee whose length of location is higher than 4.**

SELECT \* FROM EMP,DEPT

WHERE LENGTH(LOC)>4 AND EMP.DEPTNO = DEPT.DEPTNO

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO	DEPTNO	DNAME	LOC
▶	7369	SMITH	CLERK	17/12/80	800	20	20	RESEARCH	DALLAS
	7499	ALLEN	SALESMAN	20/02/81	1600	30	30	SALES	CHICAGO
	7521	WARD	SALESMAN	22/02/81	1250	30	30	SALES	CHICAGO
	7566	JONES	MANGER	02/04/81	2975	20	20	RESEARCH	DALLAS
	7654	MARTIN	SALESMAN	28/09/81	1250	30	30	SALES	CHICAGO
	7698	BLAKE	MANGER	01/05/81	2850	30	30	SALES	CHICAGO
	7782	CLARK	MANGER	09/06/81	2450	10	10	ACCOUNTING	NEW YORK
	7788	SCOTT	ANALYST	19/04/87	3000	20	20	RESEARCH	DALLAS
	7839	KING	PRESIDENT	17/09/81	5000	10	10	ACCOUNTING	NEW YORK
	7844	TURNER	SALESMAN	08/09/81	1500	30	30	SALES	CHICAGO
	7876	ADAMS	CLERK	23/05/87	1100	20	20	RESEARCH	DALLAS
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**QUES 19 Display maximum, minimum and average salary.**

SELECT MAX(SAL) AS MAX\_SAL, MIN(SAL) AS MIN\_SAL, AVG(SAL) AS  
AVG\_AVG FROM EMP

	MAX_SAL	MIN_SAL	AVG_AVG	
▶	5000	800	2161	

**QUES 20 Display all the employee whose department number is between 10 and 40.**

SELECT \* FROM EMP

WHERE DEPTNO BETWEEN 10 AND 40



	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
▶	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7782	CLARK	MANGER	09/06/81	2450	10
	7839	KING	PRESIDENT	17/09/81	5000	10
	7369	SMITH	CLERK	17/12/80	800	20
	7566	JONES	MANGER	02/04/81	2975	20
	7788	SCOTT	ANALYST	19/04/87	3000	20
	7876	ADAMS	CLERK	23/05/87	1100	20
	7499	ALLEN	SALESMAN	20/02/81	1600	30
	7521	WARD	SALESMAN	22/02/81	1250	30
	7654	MARTIN	SALESMAN	28/09/81	1250	30
	7698	BLAKE	MANGER	01/05/81	2850	30
	7844	TURNER	SALESMAN	08/09/81	1500	30
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**QUES 21 Change the employee whose location is not 'DALAS' and salary is higher than 3000.**

UPDATE EMP SET ENAME='MITEN' WHERE SALARY>3000 AND DEPTNO NOT IN(SELECT DEPTNO FROM DEPT WHERE LOC='DALLAS')

**QUES 22 COUNT THE EMPLOYEE WHO HAS SALARY GREATER THAN 1500 AND FIND MAXIMUM SALARY.**

SELECT COUNT(SAL),MAX(SAL)FROM EMP WHERE SAL>1500

COUNT(EMP."SAL")	MAX(EMP."SAL")
7	5000

### QUES 23 Rename table DEPT to DEPT1.

ALTER TABLE DEPT RENAME TO DEPT1



### QUES 24 Display all the employee whose department number is between 10 and 40 and location start with 'N'

SELECT \* FROM EMP WHERE "DEPTNO" BETWEEN 10 AND 40 AND  
"DEPTNO" = ( SELECT "DEPTNO" FROM "DEPT1" WHERE "LOC" LIKE  
'N%' )

	EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
▶	7777	CHETAN	PREDIDENT	17/09/81	5000	10
	7782	CLARK	MANGER	09/06/81	2450	10
	7839	KING	PRESIDENT	17/09/81	5000	10
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