

### QUESTION-3

3.

```
SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7654,'MARTIN','SALESMAN',1250,1400,30);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7698,'BLAKE','MANAGER',2850,NULL,30);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7782,'CLARK','MANAGER',2450,NULL,10);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7788,'SCOTT','ANALYST',3000,NULL,20);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7839,'KING','PRESIDENT',5000,NULL,10);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7844,'TURNER','SALESMAN',1500,NULL,30);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7876,'ADAMS','CLERK',1100,NULL,20);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7900,'JAMES','NULL',950,NULL,30);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7902,'FORD','ANALYST',3000,NULL,20);
1 row created.

SQL> insert into EMP(EMPNO,EMPNAME,JOB,SALARY,COMMISSION,DEPTNO)values(7934,'MILLER','CLERK',1300,NULL,10);
1 row created.
```

1 row created.

SQL> select \* from EMP;

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7369 20	SMITH	CLERK	2000	800
7499 30	ALLEN	SALESMAN	1600	300
7521 30	WARD	SALESMAN	1250	300
EMPNO	EMPNAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7566	JONES	MANAGER	2975	20
7654 30	MARTIN	SALESMAN	1250	1400
7698 30	BLAKE	MANAGER	2850	
EMPNO	EMPNAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7782 10	CLARK	MANAGER	2450	
7788 20	SCOTT	ANALYST	3000	
7839 10	KING	PRESIDENT	5000	
EMPNO	EMPNAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7844	TURNER	SALESMAN	1500	

5&6.

```
-----
DEPTNO
-----
 7844 TURNER      SALESMAN      1500
   30

 7876 ADAMS       CLERK         1100
   20

 7900 JAMES       NULL          950
   30

EMPNO EMPNAME      JOB           SALARY COMMISSION
-----
DEPTNO
-----
 7902 FORD        ANALYST       3000
   20

 7934 MILLER      CLERK         1300
   10

14 rows selected.

SQL> update EMP set JOB='CLERK' where JOB='NULL';

1 row updated.

SQL> select * from EMP where EMPNO=7900;

EMPNO EMPNAME      JOB           SALARY COMMISSION
-----
DEPTNO
-----
 7900 JAMES       CLERK         950
   30

SQL> alter table EMP add DATE_JOIN date;

Table altered.
```

```
SQL> update EMP set DATE_JOIN='17-DEC-80' where EMPNO=7369;
```

```
1 row updated.
```

```
SQL> select * from EMP where EMPNO=7369;
```

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
7369	SMITH	CLERK	2000	800
20	17-DEC-80			

```
SQL> update EMP set DATE_JOIN='20-FEB-81' where EMPNO=7499;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='22-FEB-81' where EMPNO=7521;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='02-APR-81' where EMPNO=7566;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='28-SEP-81' where EMPNO=7654;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='01-MAY-81' where EMPNO=7698;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='09-JUN-81' where EMPNO=7782;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='19-APR-87' where EMPNO=7788;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='17-NOV-81' where EMPNO=7839;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='08-SEP-81' where EMPNO=7844;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='23-MAY-87' where EMPNO=7876;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='03-DEC-81' where EMPNO=7900;
```

```
1 row updated.
```

```
SQL> update EMP set DATE_JOIN='03-DEC-81' where EMPNO=7902;
```

7.

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

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
7369	SMITH	CLERK	2000	800
20	17-DEC-80			
7499	ALLEN	SALESMAN	1600	300
30	20-FEB-81			
7521	WARD	SALESMAN	1250	300
30	22-FEB-81			

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
7566	JONES	MANAGER	2975	20
02-APR-81				
7654	MARTIN	SALESMAN	1250	1400
30	28-SEP-81			
7698	BLAKE	MANAGER	2850	
30	01-MAY-81			

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
7782	CLARK	MANAGER	2450	
10	09-JUN-81			
7788	SCOTT	ANALYST	3000	
20	19-APR-87			
7839	KING	PRESIDENT	5000	
10	17-NOV-81			

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
7844	TURNER	SALESMAN	1500	
30	08-SEP-81			

8&9.

```

      7876 ADAMS                CLERK                1100
        20 23-MAY-87

      7900 JAMES                CLERK                 950
        30 03-DEC-81

EMPNO EMPNAME                JOB                SALARY COMMISSION
-----
DEPTNO DATE_JOIN
-----
      7902 FORD                ANALYST                3000
        20 03-DEC-81

      7934 MILLER              CLERK                 1300
        10 23-JAN-82

14 rows selected.

SQL> SELECT DISTINCT JOB FROM EMP;

JOB
-----
CLERK
SALESMAN
PRESIDENT
MANAGER
ANALYST

SQL> SELECT EMPNAME FROM EMP WHERE DEPTNO=20 AND DEPTNO=30;

no rows selected

SQL> SELECT EMPNAME FROM EMP WHERE DEPTNO IN(20,30);

EMPNAME
-----
SMITH
ALLEN
WARD
MARTIN
BLAKE
SCOTT
TURNER
ADAMS
JAMES
FORD

10 rows selected.
```

10&11

```
SQL> SELECT EMPNAME, (SALARY+COMMISSION) AS "TOTAL_SALARY" FROM EMP;
```

EMPNAME	TOTAL_SALARY
SMITH	2800
ALLEN	1900
WARD	1550
JONES	2995
MARTIN	2650
BLAKE	
CLARK	
SCOTT	
KING	
TURNER	
ADAMS	

EMPNAME	TOTAL_SALARY
JAMES	
FORD	
MILLER	

14 rows selected.

```
SQL> SELECT EMPNAME, (SALARY*12) AS "ANNUAL_SALARY" FROM EMP;
```

EMPNAME	ANNUAL_SALARY
SMITH	24000
ALLEN	19200
WARD	15000
JONES	35700
MARTIN	15000
BLAKE	34200
CLARK	29400
SCOTT	36000
KING	60000
TURNER	18000
ADAMS	13200

EMPNAME	ANNUAL_SALARY
JAMES	11400
FORD	36000
MILLER	15600

14 rows selected.

12.

```
SQL> SELECT * FROM EMP WHERE DATE_JOIN='03-DEC-81';
```

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
DEPTNO	DATE_JOIN			
7900	JAMES	CLERK	950	
30	03-DEC-81			
7902	FORD	ANALYST	3000	
20	03-DEC-81			

13.

```
SQL> SELECT SALARY AS TOTAL_SALARY FROM EMP WHERE EMPNAME='MILLER';
```

TOTAL_SALARY
1300



14&15.

```
SQL> DELETE FROM EMP WHERE EMPNAME='MILLER';
```

```
1 row deleted.
```

```
SQL> SELECT EMPNAME,DEPTNO FROM EMP ;
```

EMPNAME	DEPTNO
SMITH	20
ALLEN	30
WARD	30
JONES	
MARTIN	30
BLAKE	30
CLARK	10
SCOTT	20
KING	10
TURNER	30
ADAMS	20

EMPNAME	DEPTNO
JAMES	30
FORD	20

```
13 rows selected.
```

16.

```
SQL> UPDATE EMP SET SALARY=(SALARY+COMMISSION);
```

```
13 rows updated.
```

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

EMPNO	EMPNAME	JOB	SALARY	COMMISSION
DEPTNO DATE_JOIN				
7369	SMITH	CLERK	2800	800
20	17-DEC-80			
7499	ALLEN	SALESMAN	1900	300
30	20-FEB-81			
7521	WARD	SALESMAN	1550	300
30	22-FEB-81			
EMPNO	EMPNAME	JOB	SALARY	COMMISSION
DEPTNO DATE_JOIN				
7566	JONES	MANAGER	2995	20
	02-APR-81			
7654	MARTIN	SALESMAN	2650	1400
30	28-SEP-81			
7698	BLAKE	MANAGER		
30	01-MAY-81			
EMPNO	EMPNAME	JOB	SALARY	COMMISSION
DEPTNO DATE_JOIN				

```
SQL> ALTER TABLE EMP DROP COLUMN COMMISSION;
```

```
Table altered.
```

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

	EMPNO	EMPNAME	JOB	SALARY	DEPTNO
DATE_JOIN					
17-DEC-80	7369	SMITH	CLERK	2800	20

20-FEB-81	7499	ALLEN	SALESMAN	1900	30
-----------	------	-------	----------	------	----

22-FEB-81	7521	WARD	SALESMAN	1550	30
-----------	------	------	----------	------	----

	EMPNO	EMPNAME	JOB	SALARY	DEPTNO
DATE_JOIN					
02-APR-81	7566	JONES	MANAGER	2995	

28-SEP-81	7654	MARTIN	SALESMAN	2650	30
-----------	------	--------	----------	------	----

01-MAY-81	7698	BLAKE	MANAGER		30
-----------	------	-------	---------	--	----

	EMPNO	EMPNAME	JOB	SALARY	DEPTNO
DATE_JOIN					
09-JUN-81	7782	CLARK	MANAGER		10

19-APR-87	7788	SCOTT	ANALYST		20
-----------	------	-------	---------	--	----

17-NOV-81	7839	KING	PRESIDENT		10
-----------	------	------	-----------	--	----

	EMPNO	EMPNAME	JOB	SALARY	DEPTNO
--	-------	---------	-----	--------	--------

18.

```
SQL> SELECT EMPNAME AS NAME,EMPNO AS EMP_ID FROM EMP;
```

NAME	EMP_ID
SMITH	7369
ALLEN	7499
WARD	7521
JONES	7566
MARTIN	7654
BLAKE	7698
CLARK	7782
SCOTT	7788
KING	7839
TURNER	7844
ADAMS	7876

NAME	EMP_ID
JAMES	7900
FORD	7902

```
13 rows selected.
```

19&20.

```
SQL> RENAME EMP TO EMPLOYEE;
```

Table renamed.

```
SQL> CREATE TABLE EMP_TAB AS SELECT EMPNO,EMPNAME,JOB FROM EMPLOYEE;
```

Table created.

```
SQL> SELECT * FROM EMP_TAB;
```

EMPNO	EMPNAME	JOB
7369	SMITH	CLERK
7499	ALLEN	SALESMAN
7521	WARD	SALESMAN
7566	JONES	MANAGER
7654	MARTIN	SALESMAN
7698	BLAKE	MANAGER
7782	CLARK	MANAGER
7788	SCOTT	ANALYST
7839	KING	PRESIDENT
7844	TURNER	SALESMAN
7876	ADAMS	CLERK
7900	JAMES	CLERK
7902	FORD	ANALYST

13 rows selected.