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SECTION - CSE-39

Q4:Create a table employee with attributes emp_id, f_name , l_name , job_type, salary, commision, dept, and manager_id.

```
SQL> create table employee (employee_id number(20),f_name char(20), l_name char(20),job_type char(20),salary number(15),commission nu
mber(2),dept char(10),manager_id char(10));

Table created.
```

Q5: Describe the table employee

```
SQL> create table employee (employee_id number(20),f_name char(20), l_name char(20),job_type char(20),salary number(15),commission nu
mber(2),dept char(10),manager_id char(10));

Table created.

SQL> desc employee
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EMPLOYEE_ID                                        NUMBER(20)
 F_NAME                                             CHAR(20)
 L_NAME                                             CHAR(20)
 JOB_TYPE                                           CHAR(20)
 SALARY                                             NUMBER(15)
 COMMISSION                                         NUMBER(2)
 DEPT                                               CHAR(10)
 MANAGER_ID                                         CHAR(10)
```

Q6: Add a new column doj to the employee table.

```
SQL> alter table employee Add(doj date);

Table altered.

SQL> desc employee
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EMPLOYEE_ID                                        NUMBER(20)
 F_NAME                                             CHAR(20)
 L_NAME                                             CHAR(20)
 JOB_TYPE                                           CHAR(20)
 SALARY                                             NUMBER(15)
 COMMISSION                                         NUMBER(2)
 DEPT                                               CHAR(10)
 MANAGER_ID                                         CHAR(10)
 DOJ                                                DATE
```

Q7: Create a new table department with attributes d_name, d_loc, and hod_id.

```
SQL> create table department(d_name char(20),d_loc char(20),hod_id number(10));

Table created.
```

Q8: Create another table named location with attributes loc_id, city and contact_no.

```
SQL> create table location (loc_id number(20),city char(10),contact_no number(10));

Table created.

SQL> desc location
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 CITY                                               CHAR(10)
 CONTACT_NO                                         NUMBER(10)
```

Q9. Enhance the size of city attribute in location table by 5.

```
SQL> alter table location modify (city varchar(25));

Table altered.

SQL> desc location
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 CITY                                               VARCHAR2(25)
 CONTACT_NO                                         NUMBER(10)
```

Q10. Delete the contact_no attribute in the location table.

```
SQL> alter table location drop column contact_no;

Table altered.

SQL> desc location
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 CITY                                               VARCHAR2(25)
```

Q11. Rename the city attribute in the location table to address.

```
SQL> alter table location rename column city to address;

Table altered.

SQL> desc location
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 ADDRESS                                            VARCHAR2(25)
```

Q12. Change the name of the table from location to loc.

```
SQL> rename location to loc;

Table renamed.

SQL> desc location
ERROR:
ORA-04043: object location does not exist


SQL> desc loc
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 ADDRESS                                            VARCHAR2(25)
```

Q13. Insert the following values into the loc table.

LOC_ID	ADDRESS
1	kolkata
2	mumbai

```
SQL> insert into loc values(1,'kolkata');

1 row created.

SQL> insert into loc values(2,'mumbai');

1 row created.

SQL> desc loc;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 LOC_ID                                             NUMBER(20)
 ADDRESS                                            VARCHAR2(25)
```

Q14. Show the values of location table.

```
SQL> select * from loc;

    LOC_ID ADDRESS
---------- ------------------------
         1 kolkata
         2 mumbai
```

Q15. Delete all values and spaces consumed by loc table.

```
SQL> delete from loc;

2 rows deleted.

SQL> select * from loc;

no rows selected
```

Q16. Delete the loc table.

```
SQL> drop table loc;

Table dropped.

SQL> desc loc;
ERROR:
ORA-04043: object loc does not exist
```

Q17. Insert the following values into the department table.

```
SQL> insert into department values('&d_name','&d_loc','&hod_id');
Enter value for d_name: sales
Enter value for d_loc: Kol
Enter value for hod_id: 4
old   1: insert into department values('&d_name','&d_loc','&hod_id')
new   1: insert into department values('sales','Kol','4')

1 row created.

SQL> insert into department values('&d_name','&d_loc','&hod_id');
Enter value for d_name: accounts
Enter value for d_loc: delhi
Enter value for hod_id: 6
old   1: insert into department values('&d_name','&d_loc','&hod_id')
new   1: insert into department values('accounts','delhi','6')

1 row created.

SQL> insert into department values('&d_name','&d_loc','&hod_id');
Enter value for d_name: production
Enter value for d_loc: kol
Enter value for hod_id: 1
old   1: insert into department values('&d_name','&d_loc','&hod_id')
new   1: insert into department values('production','kol','1')

1 row created.
```

```
SQL> insert into department values('&d_name','&d_loc','&hod_id');
Enter value for d_name: marketing
Enter value for d_loc: kol
Enter value for hod_id: 2
old   1: insert into department values('&d_name','&d_loc','&hod_id')
new   1: insert into department values('marketing','kol','2')

1 row created.

SQL> insert into department values('&d_name','&d_loc','&hod_id');
Enter value for d_name: r&d
Enter value for d_loc: delhi
Enter value for hod_id: 8
old   1: insert into department values('&d_name','&d_loc','&hod_id')
new   1: insert into department values('r&d','delhi','8')

1 row created.

SQL> select * from department;

D_NAME               D_LOC                    HOD_ID
-------------------- -------------------- ----------
sales                Kol                           4
accounts             delhi                         6
production           kol                           1
marketing            kol                           2
r&d                  delhi                         8
```

Q18. Insert the following values into the employee table.

```
SQL> insert into employee values(1,'arun','khan','manager',90000,NULL,'production',NULL,'04-JAN-1998');

1 row created.

SQL> insert into employee values(2,'barun','kumar','manager',80000,NULL,'marketing',NULL,'09-FEB-1998');

1 row created.

SQL> insert into employee values(3,'chitra','kapoor','engineer',60000,NULL,'production',1,'08-JAN-1998');

1 row created.

SQL> insert into employee values(4,'dheeraj','mishra','manager',75000,NULL,'sales',2,'27-DEC-2001');

1 row created.
```

```
SQL> insert into employee values(5,'emma','dutta','engineer',55000,NULL,'production',1,'20-MAR-2002');

1 row created.

SQL> insert into employee values(6,'floki','dutt','accountant',70000,NULL,'accounts',NULL,'16-JUL-2000');

1 row created.

SQL> insert into employee values(7,'dheeraj','kumar','clerk',40000,NULL,'accounts',6,'01-JUL-2016');

1 row created.

SQL> insert into employee values(8,'saul','good','engineer',60000,NULL,'&dept',NULL,'06-SEP-2014');
Enter value for dept: r&d
old   1: insert into employee values(8,'saul','good','engineer',60000,NULL,'&dept',NULL,'06-SEP-2014')
new   1: insert into employee values(8,'saul','good','engineer',60000,NULL,'r&d',NULL,'06-SEP-2014')

1 row created.
```

```
SQL> insert into employee values(8,'saul','good','engineer',60000,NULL,'&dept',NULL,'06-SEP-2014');
Enter value for dept: r&d
old   1: insert into employee values(8,'saul','good','engineer',60000,NULL,'&dept',NULL,'06-SEP-2014')
new   1: insert into employee values(8,'saul','good','engineer',60000,NULL,'r&d',NULL,'06-SEP-2014')

1 row created.

SQL> insert into employee values(9,'mou','bhat','clerk',30000,NULL,'sales',4,'08-MAR-2018');

1 row created.

SQL> insert into employee values(10,'sunny','deol','salesman',20000,10000,'marketing',2,'31-MAR-01');

1 row created.

SQL> insert into employee values(11,'bobby','deol','engineer',35000,NULL,'&dept',8,'17-OCT-17');
Enter value for dept: r&d
old   1: insert into employee values(11,'bobby','deol','engineer',35000,NULL,'&dept',8,'17-OCT-17')
new   1: insert into employee values(11,'bobby','deol','engineer',35000,NULL,'r&d',8,'17-OCT-17')

1 row created.

SQL> insert into employee values(12,'amir','khan','salesman',15000,5000,'marketing',2,'11-JAN-13');

1 row created.
```

```
SQL> select * from employee;

EMPLOYEE_ID F_NAME               L_NAME               JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- -------------------- -------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                 khan                 manager                 90000            production            04-JAN-98
          2 barun                kumar                manager                 80000            marketing             09-FEB-98
          3 chitra               kapoor               engineer                60000            production          1 08-JAN-98
          4 dheeraj              mishra               manager                 75000            sales               2 27-DEC-01
          5 emma                 dutta                engineer                55000            production          1 20-MAR-02
          6 floki                dutt                 accountant              70000            accounts              16-JUL-00
          7 dheeraj              kumar                clerk                   40000            accounts            6 01-JUL-16
          8 saul                 good                 engineer                60000            r&d                   06-SEP-14
          9 mou                  bhat                 clerk                   30000            sales               4 08-MAR-18
         10 sunny                deol                 salesman                20000      10000 marketing           2 31-MAR-01
         11 bobby                deol                 engineer                35000            r&d                 8 17-OCT-17
         12 amir                 khan                 salesman                15000       5000 marketing           2 11-JAN-13

12 rows selected.
```

Q19. Save the database.

```
SQL> commit;

Commit complete.
```

Q20: Show all the attribute values of the department table.

```
SQL> desc department;
 Name                      Null?    Type
 ------------------------- -------- ----------------
 D_NAME                             CHAR(20)
 D_LOC                              CHAR(20)
 HOD_ID                             NUMBER(10)
```

```
SQL> select * from department;

D_NAME               D_LOC                    HOD_ID
-------------------- -------------------- ----------
sales                kol                           4
accounts             delhi                         6
production           kol                           1
marketing            kol                           2
r&d                  delhi                         8
```

Q21: Display the department names and their locations.

```
SQL> select d_name,d_loc from department;

D_NAME               D_LOC
-------------------- --------------------
sales                kol
accounts             delhi
production           kol
marketing            kol
r&d                  delhi
```

Q22: Show the employee's first name, last name, current salary and the salary with a 1000 rupees bonus.

```
SQL> select f_name,l_name,salary,salary+1000 from employee;

F_NAME               L_NAME                    SALARY SALARY+1000
-------------------- -------------------- ---------- -----------
arun                 khan                       90000       91000
barun                kumar                      80000       81000
chitra               kapoor                     60000       61000
dheeraj              mishra                     75000       76000
emma                 dutta                      55000       56000
floki                dutt                       70000       71000
dheeraj              kumar                      40000       41000
saul                 good                       60000       61000
mou                  bhat                       30000       31000
sunny                deol                       20000       21000
bobby                deol                       35000       36000
amir                 khan                       15000       16000

12 rows selected.
```

Q23: Show the employee's annual salary with a 1000 rupees yearly bonus and the annual salary with a 100 rupees monthly bonus.

```
SQL> select f_name,l_name,salary,salary+1000,salary+(100*12) from employee;

F_NAME               L_NAME                    SALARY SALARY+1000 SALARY+(100*12)
-------------------- -------------------- ---------- ----------- ---------------
arun                 khan                       90000       91000           91200
barun                kumar                      80000       81000           81200
chitra               kapoor                     60000       61000           61200
dheeraj              mishra                     75000       76000           76200
emma                 dutta                      55000       56000           56200
floki                dutt                       70000       71000           71200
dheeraj              kumar                      40000       41000           41200
saul                 good                       60000       61000           61200
mou                  bhat                       30000       31000           31200
sunny                deol                       20000       21000           21200
bobby                deol                       35000       36000           36200
amir                 khan                       15000       16000           16200

12 rows selected.
```

Q24: Show f_name as Name and annual salary as ANNSAL from the employee table.

```
SQL> select f_name AS NAME,salary AS ANNSAL from employee;

NAME                    ANNSAL
-------------------- ----------
arun                     90000
barun                    80000
chitra                   60000
dheeraj                  75000
emma                     55000
floki                    70000
dheeraj                  40000
saul                     60000
mou                      30000
sunny                    20000
bobby                    35000
amir                     15000

12 rows selected.
```

Q25: Show the L_name as SurName and 100 rupees incremented salary as NewSal from the employee table.

```
SQL> select l_name AS SurName,salary+100 AS NewSal from employee;

SURNAME                 NEWSAL
-------------------- ----------
khan                     90100
kumar                    80100
kapoor                   60100
mishra                   75100
dutta                    55100
dutt                     70100
kumar                    40100
good                     60100
bhat                     30100
deol                     20100
deol                     35100
khan                     15100

12 rows selected.
```

Q26: Display the employees f_name and l_name joined together using the concatenation operator.

```
SQL> select f_name||''||l_name from employee;

F_NAME||''||L_NAME
----------------------------------------
arun                    khan
barun                   kumar
chitra                  kapoor
dheeraj                 mishra
emma                    dutta
floki                   dutt
dheeraj                 kumar
saul                    good
mou                     bhat
sunny                   deol
bobby                   deol
amir                    khan

12 rows selected.
```

Q27: Show the f_name, l_name and job_type as Employees.

```
SQL> select f_name,l_name,job_type AS Employees from employee;

F_NAME               L_NAME               EMPLOYEES
-------------------- -------------------- --------------------
arun                 khan                 manager
barun                kumar                manager
chitra               kapoor               engineer
dheeraj              mishra               manager
emma                 dutta                engineer
floki                dutt                 accountant
dheeraj              kumar                clerk
saul                 good                 engineer
mou                  bhat                 clerk
sunny                deol                 salesman
bobby                deol                 engineer
amir                 khan                 salesman

12 rows selected.
```

Q28: Show the employee details in the following fassion:

Employees Details

---

arun khan is a manager

barun kumar is a manager

```
SQL> select f_name||''||l_name||'is a '||job_type AS Employee_Details from employee;

EMPLOYEE_DETAILS
--------------------------------------------------------------------
arun                 khan                 is a manager
barun                kumar                is a manager
chitra               kapoor               is a engineer
dheeraj              mishra               is a manager
emma                 dutta                is a engineer
floki                dutt                 is a accountant
dheeraj              kumar                is a clerk
saul                 good                 is a engineer
mou                  bhat                 is a clerk
sunny                deol                 is a salesman
bobby                deol                 is a engineer
amir                 khan                 is a salesman

12 rows selected.
```

Q29: Show the monthly salary details in the following fashion:

Monthly Salary Details

---

arun's monthly salary is 90000

……

```
SQL> select f_name||'monthly salary is  '||salary AS "Monthly_Salary_Details" from employee;

Monthly_Salary_Details
--------------------------------------------------------------------------------
arun                 monthly salary is  90000
barun                monthly salary is  80000
chitra               monthly salary is  60000
dheeraj              monthly salary is  75000
emma                 monthly salary is  55000
floki                monthly salary is  70000
dheeraj              monthly salary is  40000
saul                 monthly salary is  60000
mou                  monthly salary is  30000
sunny                monthly salary is  20000
bobby                monthly salary is  35000
amir                 monthly salary is  15000

12 rows selected.
```

Q30: Show the department names from the employee table.

```
SQL> select dept from employee;

DEPT
----------
production
marketing
production
sales
production
accounts
accounts
r&d
sales
marketing
r&d
marketing

12 rows selected.
```

Q31: Show the distinct department names from the employee table.

```
SQL> select DISTINCT dept from employee;

DEPT
----------
marketing
sales
production
r&d
accounts
```

Q32: Show the employees earning more than 50000.

```
SQL> select * from employee where salary>50000;

EMPLOYEE_ID F_NAME                L_NAME                JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- --------------------- --------------------- ------------------ ---------- ---------- ---------- ---------- ----
-----
          1 arun                  khan                  manager                 90000            production            04-J
AN-98
          2 barun                 kumar                 manager                 80000            marketing             09-F
EB-98
          3 chitra                kapoor                engineer                60000            production 1          08-J
AN-98
          4 dheeraj               mishra                manager                 75000            sales      2          27-D
EC-01
          5 emma                  dutta                 engineer                55000            production 1          20-M
AR-02
          6 floki                 dutt                  accountant              70000            accounts              16-J
UL-00
          8 saul                  good                  engineer                60000            r&d                   06-S
EP-14

7 rows selected.
```

Q33. Show the employee's id's who are not working under manager id-1.

```
SQL> select employee_id from employee where manager_id=1;

EMPLOYEE_ID
-----------
          3
          5
```

Q34: Show the employee's names and salaries whose salary ranges between 40000 to 70000.

```
SQL> select f_name||''||l_name AS Name from employee where salary>40000 AND salary<70000;

NAME
--------------------------------------------------
chitra               kapoor
emma                 dutta
saul                 good
```

Q35: Show the employees who work for manager id 1 or 6 or 8.

```
SQL> select f_name||''||l_name AS Name from employee where manager_id=1 OR manager_id=6 OR manager_id=8;

NAME
--------------------------------------------------
chitra               kapoor
emma                 dutta
dheeraj              kumar
bobby                deol
```

Q36: Select the first names and salaries of those employee whose last name is khan.

```
SQL> select * from employee where l_name ='khan';

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- ------------------ ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
         12 amir                      khan                      salesman                15000       5000 marketing  2          11-JAN-13
```

Q37: Select the first names and salaries of those employee whose last name starts with k.

```
SQL> select f_name,salary from employee where l_name like'k%';

F_NAME                         SALARY
------------------------- ----------
arun                            90000
barun                           80000
chitra                          60000
dheeraj                         40000
amir                            15000
```

Q38: Select the first name, last name and salary of those employee whose last name starts with k and ends with r.

```
SQL> select * from employee where l_name like 'k%r';

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- ------------------ ---------- ---------- ---------- ---------- ---------
          2 barun                     kumar                     manager                 80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer                60000            production 1          08-JAN-98
          7 dheeraj                   kumar                     clerk                   40000            accounts   6          01-JUL-16
```

Q39: Select the employees whose 3 rd letter of their last name is o.

```
SQL> select * from employee where l_name like '__o%';

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- ------------------ ---------- ---------- ---------- ---------- ---------
          8 saul                      good                      engineer                60000            r&d                   06-SEP-14
         10 sunny                     deol                      salesman                20000      10000 marketing  2          31-MAR-01
         11 bobby                     deol                      engineer                35000            r&d        8          17-OCT-17
```

Q40: Select the employees who are not working under any manager.

```
SQL> select * from employee where manager_id is NULL;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- ------------------ ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
          2 barun                     kumar                     manager                 80000            marketing             09-FEB-98
          6 floki                     dutt                      accountant              70000            accounts              16-JUL-00
          8 saul                      good                      engineer                60000            r&d                   06-SEP-14

SQL>
```

Q41: Select the employees who work as engineers with salary greater than 50000.

```
SQL> select * from employee where job_type='manager' AND salary>50000;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
          2 barun                     kumar                     manager                 80000            marketing             09-FEB-98
          4 dheeraj                   mishra                    manager                 75000            sales      2          27-DEC-01
```

Q42: Select the employees who work in the production department or earns more than 60000.

```
SQL> select * from employee where dept='production' AND salary>60000;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
```

Q43: Select those employees who are not managers or engineers or clerks.

```
SQL> select * from employee where job_type<>'manager' AND job_type<>'engineer' AND job_type<>'clerk';

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          6 floki                     dutt                      accountant              70000            accounts              16-JUL-00
         10 sunny                     deol                      salesman                20000      10000 marketing  2          31-MAR-01
         12 amir                      khan                      salesman                15000       5000 marketing  2          11-JAN-13
```

Q44: Select the employees who earns more than 49000 or less than 29000.

```
SQL> select * from employee where salary<29000 OR salary>49000;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
          2 barun                     kumar                     manager                 80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer                60000            production 1          08-JAN-98
          4 dheeraj                   mishra                    manager                 75000            sales      2          27-DEC-01
          5 emma                      dutta                     engineer                55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant              70000            accounts              16-JUL-00
          8 saul                      good                      engineer                60000            r&d                   06-SEP-14
         10 sunny                     deol                      salesman                20000      10000 marketing  2          31-MAR-01
         12 amir                      khan                      salesman                15000       5000 marketing  2          11-JAN-13

9 rows selected.
```

Q45. Select the employees who don’t have an ‘o’ as the 2 nd last letter of their last name.

```
SQL> select * from employee where l_name NOT LIKE '%o_%';

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE             SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                 90000            production            04-JAN-98
          2 barun                     kumar                     manager                 80000            marketing             09-FEB-98
          4 dheeraj                   mishra                    manager                 75000            sales      2          27-DEC-01
          5 emma                      dutta                     engineer                55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant              70000            accounts              16-JUL-00
          7 dheeraj                   kumar                     clerk                   40000            accounts   6          01-JUL-16
          9 mou                       bhat                      clerk                   30000            sales      4          08-MAR-18
         12 amir                      khan                      salesman                15000       5000 marketing  2          11-JAN-13

8 rows selected.
```

Q46. Select the employees who get commission.

```
SQL> select * from employee where commission IS NOT NULL;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
         10 sunny                     deol                      salesman                20000      10000 marketing  2          31-MAR-01
         12 amir                      khan                      salesman                15000       5000 marketing  2          11-JAN-13
```

Q47. WAQ to display the current date.

```
SQL> select sysdate from dual;

SYSDATE
---------
31-DEC-24
```

Q48. Show the total experience in weeks for all the employees.

```
SQL> select (TO_CHAR(sysdate,'YYYY') - TO_CHAR(DOJ,'YYYY'))*12*4 AS "Experience(weeks)" from employee;

Experience(weeks)
-----------------
             1248
             1248
             1248
             1104
             1056
             1152
              384
              480
              288
             1104
              336
              528
              336
              336

14 rows selected.
```

Q49. Find the employees working under employee_id 2.

```
SQL> select * from employee where employee_id=2;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
         2 barun                      kumar                     manager                 80000                 marketing             09-FEB-98
```

Q50. Delete the employees from sales department if they are not working as managers.

```
SQL> delete from employee where dept='sales' AND job_type<>'manager';

1 row deleted.

SQL> select * from employee ;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                90000            production            04-JAN-98
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          4 dheeraj                   mishra                    manager                75000            sales      2          27-DEC-01
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
          7 dheeraj                   kumar                     clerk                  40000            accounts   6          01-JUL-16
          8 saul                      good                      engineer               60000            r&d                   06-SEP-14
          10 sunny                    deol                      salesman               20000      10000 marketing  2          31-MAR-01
          11 bobby                    deol                      engineer               35000            r&d        8          17-OCT-17
          12 amir                     khan                      salesman               15000       5000 marketing  2          11-JAN-13

11 rows selected.
```

Q51. Insert the following two rows in the employee table without inserting any value in the department field.

EMP_ID	F_NAME	L_NAME	JOB_TYPE	SALARY	COMMISION	D_NAME	MANAGER_ID	DOJ
13	anand	patil	engineer	28000	2000		1	31-JAN-17
14	anandi	patel	clerk	12000	500		1	01-APR-17

```
SQL> insert into employee values(14,'anandi','patel','clerk',12000,500,'',1,'01-Apr-17');

1 row created.

SQL> select * from employee;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                90000            production            04-JAN-98
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          4 dheeraj                   mishra                    manager                75000            sales      2          27-DEC-01
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
          7 dheeraj                   kumar                     clerk                  40000            accounts   6          01-JUL-16
          8 saul                      good                      engineer               60000            r&d                   06-SEP-14
          9 mou                       bhat                      clerk                  30000            sales      4          08-MAR-18
          10 sunny                    deol                      salesman               20000      10000 marketing  2          31-MAR-01
          11 bobby                    deol                      engineer               35000            r&d        8          17-OCT-17
          12 amir                     khan                      salesman               15000       5000 marketing  2          11-JAN-13
          13 anand                    patil                     engineer               28000       2000            1          31-JAN-17
          14 anandi                   patel                     clerk                  12000        500            1          01-APR-17

14 rows selected.
```

Q52. . Insert the following two rows in the department table.

D_NAME	D_LOC	HOD_ID
Admin	Mumbai	5
Transport	Mumbai	3

```
SQL> insert into department values('Admin','Mumbai',5);

1 row created.

SQL> insert into department values('Transport','Mumbai',3);

1 row created.

SQL> select * from department;

D_NAME               D_LOC                    HOD_ID
-------------------- -------------------- ----------
Admin                Mumbai                        5
sales                kol                           4
accounts             delhi                         6
Transport            Mumbai                        3
production           kol                           1
marketing            kol                           2
r&d                  delhi                         8

7 rows selected.
```

Q53. Update the employee table. Assign Anand to the admin department.

```
SQL> update employee set dept='admin' where f_name='anand';

1 row updated.

SQL> select * from employee;

EMPLOYEE_ID F_NAME                L_NAME                JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- --------------------- --------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                  khan                  manager                 90000            production            04-JAN-98
          2 barun                 kumar                 manager                 80000            marketing             09-FEB-98
          3 chitra                kapoor                engineer                60000            production 1          08-JAN-98
          4 dheeraj               mishra                manager                 75000            sales      2          27-DEC-01
          5 emma                  dutta                 engineer                55000            production 1          20-MAR-02
          6 floki                 dutt                  accountant              70000            accounts              16-JUL-00
          7 dheeraj               kumar                 clerk                   40000            accounts   6          01-JUL-16
          8 saul                  good                  engineer                60000            r&d                   06-SEP-14
          9 mou                   bhat                  clerk                   30000            sales      4          08-MAR-18
         10 sunny                 deol                  salesman                20000      10000 marketing  2          31-MAR-01
         11 bobby                 deol                  engineer                35000            r&d        8          17-OCT-17
         12 amir                  khan                  salesman                15000       5000 marketing  2          11-JAN-13
         13 anand                 patil                 engineer                28000       2000 admin      1          31-JAN-17
         14 anandi                patel                 clerk                   12000        500            1          01-APR-17

14 rows selected.
```

Q54. Update the manager_id from 2 to 1 in the employee table.

```
SQL> update employee set manager_id=1 where manager_id=2;

3 rows updated.

SQL> select * from employee;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                90000            production            04-JAN-98
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          4 dheeraj                   mishra                    manager                75000            sales      1          27-DEC-01
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
          7 dheeraj                   kumar                     clerk                  40000            accounts   6          01-JUL-16
          8 saul                      good                      engineer               60000            r&d                   06-SEP-14
          9 mou                       bhat                      clerk                  30000            sales      4          08-MAR-18
         10 sunny                     deol                      salesman               20000      10000 marketing  1          31-MAR-01
         11 bobby                     deol                      engineer               35000            r&d        8          17-OCT-17
         12 amir                      khan                      salesman               15000       5000 marketing  1          11-JAN-13
         13 anand                     patil                     engineer               28000       2000 admin      1          31-JAN-17
         14 anandi                    patel                     clerk                  12000        500            1          01-APR-17

14 rows selected.
```

Q55. Display the employee details in descending order on their salary.

```
SQL> select * from employee ORDER BY salary desc;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                90000            production            04-JAN-98
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          4 dheeraj                   mishra                    manager                75000            sales      1          27-DEC-01
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          8 saul                      good                      engineer               60000            r&d                   06-SEP-14
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          7 dheeraj                   kumar                     clerk                  40000            accounts   6          01-JUL-16
         11 bobby                     deol                      engineer               35000            r&d        8          17-OCT-17
          9 mou                       bhat                      clerk                  30000            sales      4          08-MAR-18
         13 anand                     patil                     engineer               28000       2000 admin      1          31-JAN-17
         10 sunny                     deol                      salesman               20000      10000 marketing  1          31-MAR-01
         12 amir                      khan                      salesman               15000       5000 marketing  1          11-JAN-13
         14 anandi                    patel                     clerk                  12000        500            1          01-APR-17

14 rows selected.
```

Q56. Display the employee details in ascending order on their l_name.

```
SQL> select * from employee ORDER BY l_name asc;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------
          9 mou                       bhat                      clerk                  30000            sales      4          08-MAR-18
         10 sunny                     deol                      salesman               20000      10000 marketing  1          31-MAR-01
         11 bobby                     deol                      engineer               35000            r&d        8          17-OCT-17
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          8 saul                      good                      engineer               60000            r&d                   06-SEP-14
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          1 arun                      khan                      manager                90000            production            04-JAN-98
         12 amir                      khan                      salesman               15000       5000 marketing  1          11-JAN-13
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          7 dheeraj                   kumar                     clerk                  40000            accounts   6          01-JUL-16
          4 dheeraj                   mishra                    manager                75000            sales      1          27-DEC-01
         14 anandi                    patel                     clerk                  12000        500            1          01-APR-17
         13 anand                     patil                     engineer               28000       2000 admin      1          31-JAN-17

14 rows selected.
```

Q57. Delete the employees who are working as salesmen and having less experience than 15 years.

```
SQL> delete from employee where (to_char(sysdate,'YYYY') - to_char(DOJ,'YYYY'))<15;

5 rows deleted.

SQL> select * from employee;

EMPLOYEE_ID F_NAME                    L_NAME                    JOB_TYPE              SALARY COMMISSION DEPT       MANAGER_ID DOJ
----------- ------------------------- ------------------------- -------------------- ---------- ---------- ---------- ---------- ---------
          1 arun                      khan                      manager                90000            production            04-JAN-98
          2 barun                     kumar                     manager                80000            marketing             09-FEB-98
          3 chitra                    kapoor                    engineer               60000            production 1          08-JAN-98
          4 dheeraj                   mishra                    manager                75000            sales      2          27-DEC-01
          5 emma                      dutta                     engineer               55000            production 1          20-MAR-02
          6 floki                     dutt                      accountant             70000            accounts              16-JUL-00
         10 sunny                     deol                      salesman               20000      10000 marketing  2          31-MAR-01

7 rows selected.
```

Q58. Commit the database.

```
SQL> commit;

Commit complete.
```