EXP 2 EMPLOYEE DATABASE

Aim:

Consider the employee database given below
emp (emp_id,emp_name, Street_No, city)
works (emp_id, company name, salary)
company (company name, city)
manages (emp_id, manager_id)

Note: Emp_id should start with 'E' in Emp table and emp_id in works table must be the emp_id from emp table .emp_id and manager_id in manages table must be the emp_id from emp table

Emp table

```
SQL> select * from emp;

EMPID               EMPNAME                       STREET_NO                     CITY
------------------- ----------------------------- ----------------------------- -----------------
e101                abhiram                       strt-101                      Tripunithara
e102                akhil                         strt-102                      piravom
e103                amalesh                       strt-103                      kannur
e104                devu                          strt-104                      mallapally
e105                aswin                         str-105                       kolenchery
e106                anandhu                       str-106                       piravom
e107                fabin                         str-107                       Thrissur
e108                ganga                         strt-108                      ernakulam
e109                athira                        strt-109                      wayanad

9 rows selected.
```

Works table

```
SQL> select * from works;

EMPID               COMPANY_NAME                      SALARY
------------------- ------------------------------ ----------
e101                sbi                                30000
e102                sbi                                40000
e103                indian bank                        35000
e104                indian bank                        40000
e105                sbi                                66000
e106                sbi                                40000
e107                indian bank                        65000
e108                federal                            60000
e109                federal                            70000

9 rows selected.
```

Company table

```
SQL> select * from company;

COMPANY_NAME                   CITY
------------------------------ ------------------
sbi                            piravom
indian bank                    kottayam
federal                        thrissur
```

Manages table

```
SQL> select * from manages;

EMPID                MANAGER_ID
-------------------- --------------------
e101                 e105
e102                 e105
e106                 e105
e103                 e107
e104                 e107
e108                 e109

6 rows selected.
```

a. Find the names of all employees who work for SBI.

```
SQL> select empname from emp where empid in(select empid from works where company_name='sbi');

EMPNAME
------------------------------
abhiram
akhil
aswin
anandhu
```

b. Find all employees in the database who live in the same cities as the companies for which they work.

```
SQL> select empname from emp e,works w,company c where e.empid=w.empid and e.city=c.city and w.compa
ny_name=c.company_name;

EMPNAME
------------------------------
akhil
anandhu
```

c. Find all employees who earn more than the average salary of all employeesof their company.

```
SQL> select empname from emp e,works w where e.empid=w.empid and w.salary>(select avg(salary) from w
orks s where w.company_name=s.company_name);

EMPNAME
------------------------------
aswin
fabin
athira
```

d. Give all managers of SBI a 10 percent raise.

```
SQL> update works w set salary=salary+salary*0.1 where company_name='sbi' and empid in(select manage
r_id from manages);

1 row updated.

SQL> select * from works;

EMPID                COMPANY_NAME                    SALARY
-------------------- ------------------------------ ----------
e101                 sbi                             30000
e102                 sbi                             40000
e103                 indian bank                     35000
e104                 indian bank                     40000
e105                 sbi                             72600
e106                 sbi                             40000
e107                 indian bank                     65000
e108                 federal                         60000
e109                 federal                         70000

9 rows selected.
```

e. Find the company that has the most employees

```
SQL> select company_name from works,emp group by company_name
  2  having count(empname) = (select max(count(empname))from works,emp
  3  group by company_name);

COMPANY_NAME
--------------------------------
sbi
```

f. Find those companies whose employees earn a higher salary, on average than the average salary at Indian Bank.

```
SQL> select company_name
  2  from works
  3  group by company_name
  4  having avg(salary) > (select avg(salary) from works where company_name='indian bank');

COMPANY_NAME
------------------------------
federal
```

g. Query to find name and salary of all employees who earn more than each employee of ‘Indian Bank’

```
SQL> select empname,salary from emp e,works w where e.empid=w.empid
  2  and
  3  company_name!='indian bank'
  4   and
  5  salary>(select min(salary) from works where company_name='indian bank');

EMPNAME                          SALARY
------------------------------ ----------
akhil                             40000
aswin                             72600
anandhu                           40000
ganga                             60000
athira                            70000
```