

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

create table emp(empid varchar(20) primary key check(empid like 'e%'),empname varchar(30),Street_no varchar(30),city varchar(30));

SQL> describe emp;

Name	Null?	Type
EMPID	NOT NULL	VARCHAR2(20)
EMPNAME		VARCHAR2(30)
STREET_NO		VARCHAR2(30)
CITY		VARCHAR2(30)

create table company(company_name varchar(30) primary key,city varchar(30));

SQL> describe company;

Name	Null?	Type
COMPANY_NAME	NOT NULL	VARCHAR2(30)
CITY		VARCHAR2(30)

create table works(empid varchar(20) references emp(empid),company_name varchar(30) references company(company_name),salary int);

SQL> describe works;

Name	Null?	Type
EMPID		VARCHAR2(20)
COMPANY_NAME		VARCHAR2(30)
SALARY		NUMBER(38)

create table manages(empid varchar(20) references emp(empid),manager_id varchar(20) references emp(empid));

SQL> describe manages;

Name	Null?	Type
EMPID		VARCHAR2(20)
MANAGER_ID		VARCHAR2(20)

Emp table

SQL> select * from emp;

EMPID	EMPNAME	STREET_NO	CITY
e111	manu	strt-101	kollam
e112	appu	strt-102	wayanad
e113	rahul	strt-103	kalady
e114	arjun	strt-104	aluva
e115	sham	strt-105	thiruvaniyoor
e116	balu	strt-106	piravom
e117	rocky	strt-107	muvatupuzha
e118	kurup	strt-108	ernakulam
e119	lalu	strt-109	kollam

Company table

SQL> select * from company;

COMPANY_NAME	CITY
sbi	kollam
indian bank	ernakulam
federal	aluva

Works table

SQL> select * from works;

EMPID	COMPANY_NAME	SALARY
e111	sbi	30000
e112	sbi	40000
e113	indian bank	35000
e114	indian bank	40000
e115	sbi	60000
e116	sbi	40000
e118	federal	60000
e119	federal	70000
e117	indian bank	65000

Manages table

SQL>

SQL> select * from manages;

EMPID	MANAGER_ID
e111	e115
e112	e115
e116	e115
e113	e117
e114	e117
e118	e119

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

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

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

EMPNAME
-----
manu
appu
sham
balu
```

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

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

```
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
-----
manu
```

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

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

```
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
-----
sham
rocky
lalu
```

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

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

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

```
1 row updated.
```

```
SQL> select * from works;
```

EMPID	COMPANY_NAME	SALARY
e111	sbi	30000
e112	sbi	40000
e113	indian bank	35000
e114	indian bank	40000
e115	sbi	66000
e116	sbi	40000
e117	indian bank	65000
e118	federal	60000
e119	federal	70000

e. Find the company that has the most employees

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

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

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

```
SQL> select company_name from works group by company_name 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'