

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

```
SQL> create table emp(emp_id varchar(10) primary key,emp_name varchar(25),street_no number,city varchar(25));
```

```
SQL> create table company(company_name varchar(25) primary key,city varchar(25));
```

```
SQL> create table works(emp_id varchar(10),company_name varchar(25),salary number,
```

```
2 foreign key(emp_id) references emp(emp_id),
```

```
3 foreign key(company_name)references company(company_name));
```

```
SQL> create table manages(emp_id varchar(10),manager_id number,
```

```
2 foreign key(emp_id) references emp(emp_id));
```

```
SQL> insert into emp values('&emp_id','&emp_name','&street_no','&city');
```

Enter value for emp_id: E101

Enter value for emp_name: raju

Enter value for street_no: 1

Enter value for city: kochi

```
old 1: insert into emp values('&emp_id','&emp_name','&street_no','&city')
```

```
new 1: insert into emp values('E101','raju',1,'kochi')
```

1 row created.

SQL> /

Enter value for emp_id: E102

Enter value for emp_name: rama

Enter value for street_no: 2

Enter value for city: calicut

old 1: insert into emp values('&emp_id','&emp_name','&street_no','&city')

new 1: insert into emp values('E102','rama',2,'calicut')

1 row created.

SQL> /

Enter value for emp_id: E103

Enter value for emp_name: harsha

Enter value for street_no: 3

Enter value for city: banglore

old 1: insert into emp values('&emp_id','&emp_name','&street_no','&city')

new 1: insert into emp values('E103','harsha',3,'banglore')

1 row created.

SQL> /

Enter value for emp_id: E104

Enter value for emp_name: karthu

Enter value for street_no: 4

Enter value for city: kochi

old 1: insert into emp values('&emp_id','&emp_name','&street_no','&city')

new 1: insert into emp values('E104','karthu',4,'kochi')

1 row created.

```
SQL> insert into company values('&company_name','&city');
```

Enter value for company_name: SBI

Enter value for city: kochi

```
old 1: insert into company values('&company_name','&city')
```

```
new 1: insert into company values('SBI','kochi')
```

1 row created.

```
SQL> /
```

Enter value for company_name: india bank

Enter value for city: calicut

```
old 1: insert into company values('&company_name','&city')
```

```
new 1: insert into company values('india bank','calicut')
```

1 row created.

```
SQL> /
```

Enter value for company_name: canara

Enter value for city: banglore

```
old 1: insert into company values('&company_name','&city')
```

```
new 1: insert into company values('canara','banglore')
```

1 row created.

SQL> /

Enter value for company_name: federal

Enter value for city: kochi

old 1: insert into company values('&company_name','&city')

new 1: insert into company values('federal','kochi')

1 row created.

SQL> insert into works values('&emp_id','&company_name',&salary);

Enter value for emp_id: E101

Enter value for company_name: SBI

Enter value for salary: 10000

old 1: insert into works values('&emp_id','&company_name',&salary)

new 1: insert into works values('E101','SBI',10000)

1 row created.

SQL> /

Enter value for emp_id: E102

Enter value for company_name: india bank

Enter value for salary: 5000

old 1: insert into works values('&emp_id','&company_name',&salary)

new 1: insert into works values('E102','india bank',5000)

1 row created.

SQL> /

Enter value for emp_id: E103

Enter value for company_name: canara

Enter value for salary: 50000

old 1: insert into works values('&emp_id','&company_name',&salary)

new 1: insert into works values('E103','canara',50000)

1 row created.

SQL> /

Enter value for emp_id: E104

Enter value for company_name: federal

Enter value for salary: 30000

old 1: insert into works values('&emp_id','&company_name',&salary)

new 1: insert into works values('E104','federal',30000)

1 row created.

SQL> insert into manages values('&emp_id',&manager_id);

Enter value for emp_id: E101

Enter value for manager_id: 101

old 1: insert into manages values('&emp_id',&manager_id)

new 1: insert into manages values('E101',101)

1 row created.

SQL> /

Enter value for emp_id: E102

Enter value for manager_id: 102

old 1: insert into manages values('&emp_id',&manager_id)

new 1: insert into manages values('E102',102)

1 row created.

SQL> /

Enter value for emp_id: E103

Enter value for manager_id: 103

old 1: insert into manages values('&emp_id',&manager_id)

new 1: insert into manages values('E103',103)

1 row created.

SQL> /

Enter value for emp_id: E104

Enter value for manager_id: 104

old 1: insert into manages values('&emp_id',&manager_id)

new 1: insert into manages values('E104',104)

1 row created.

SQL> set linesize 150;

SQL> select *from emp;

EMP_ID	EMP_NAME	STREET_NO	CITY

E101	raju	1 kochi
E102	rama	2 calicut
E103	harsha	3 banglore
E104	karthu	4 kochi

SQL> select *from company;

COMPANY_NAME	CITY

SBI	kochi
india bank	calicut
canara	banglore
federal	kochi

SQL> select *from works;

EMP_ID	COMPANY_NAME	SALARY

E101	SBI	10000
E102	india bank	5000
E103	canara	50000
E104	federal	30000

SQL> select *from manages;

EMP_ID	MANAGER_ID

E101	101
E102	102
E103	103
E104	104

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

```
SQL> select emp_name from emp,company,works where emp.emp_id=works.emp_id and
works.company_name=com
```

```
pany.company_name and company.company_name='SBI';
```

```
EMP_NAME
```

```
-----
```

```
raju
```

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

```
SQL> select emp_name from emp,company,works where emp.emp_id=works.emp_id and
emp.city=company.cit
```

```
y and works.company_name!=company.company_name;
```

```
EMP_NAME
```

```
-----
```

```
karthu
```

```
raju
```

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


```
SQL> select emp_name from emp,works where emp.emp_id=works.emp_id and salary>(select
avg(salary) fr
om works);
```

EMP_NAME

harsha

karthu

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

```
SQL> update works set salary=salary+10 where company_name='SBI';
```

1 row updated.

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

EMP_ID	COMPANY_NAME	SALARY
--------	--------------	--------

E101	SBI	10010
------	-----	-------

E102	india bank	5000
------	------------	------

E103	canara	50000
------	--------	-------

E104	federal	30000
------	---------	-------

e)Find the company that has the most employees

```
select company_name from works group by company_name having
count(distinct emp_id)>=all(select count (distinct emp_id)from works 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='Indain
Bank' group by company_name);
```

COMPANY_NAME

canara
federal

g)Query to find name and salary of all employees who earn more than each employee of 'Indian Bank'

```
select emp_name,salary from works,emp where salary>(select
max(salary) from works where company_name='Indain Bank' group
by company_name) and emp.emp_id=works.emp_id;
```

EMP_NAME SALARY

canara 50000

