CO1-Exp-2

SQL> create table emp(emp\_id char(8) check(emp\_id like 'E%') primary key,emp\_name varchar(18),street\_no int,city varchar(18));

Table created.

SQL> insert into emp values('E-101','Adarsh',101,'MG Road');

1 row created.

SQL> insert into emp values('E-102','Bonny',101,'MG Road');

1 row created.

SQL> insert into emp values('E-103','Catherin',102,'Cochin');

1 row created.

SQL> insert into emp values('E-104','Glenn',104,'Ernakulam');

1 row created.

SQL> insert into emp values('E-110','',George,106,'Ernakulam');

1 row created.

SQL> insert into emp values('E-111','Akshay',107,'Kottayam');

1 row created.

SQL> insert into emp values('E-105','Anu',104,'Kollam');

1 row created.

SQL> select \* from emp;

EMP\_ID EMP\_NAME STREET\_NO CITY

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E-101 Adarsh 101 MG Road

E-102 Bonny 101 MG Road

E-103 Catherin 102 Cochin

E-104 Glenn 104 Ernakulam

E-110 George 106 Eranakulam

E-111 Akshay 107 Kottayam

E-105 Anu 104 Kollam

7 rows selected.

SQL> create table company(company\_name varchar(18) primary key,city varchar(18));

Table created.

SQL> insert into company values('SBI','MG Road');

1 row created.

SQL> insert into company values('SBT','MG Road');

1 row created.

SQL> insert into company values('Federal','Broadway');

1 row created.

SQL> insert into company values('Indian Bank','Cochin');

1 row created.

SQL> insert into company values('SIB','Ernakulam');

1 row created.

SQL> select \* from company;

COMPANY\_NAME CITY

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SBI MG Road

SBT MG Road

Federal Broadway

Indian Bank Cochin

SIB Ernakulam

SQL> create table works(emp\_id char(8) references emp(emp\_id),company\_name varchar(18) references company(company\_name),salary float,primary key(emp\_id,company\_name));

Table created.

SQL> insert into works values('E-101','SBI',71000);

1 row created.

SQL> insert into works values('E-102','SBI',90000);

1 row created.

SQL> insert into works values('E-103','SBT',40000);

1 row created.

SQL> insert into works values('E-104','Federal',37000);

1 row created.

SQL> insert into works values('E-105','SBT',17000)

1 row created

SQL> select \* from works;

EMP\_ID COMPANY\_NAME SALARY

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E-101 SBI 71000

E-102 SBI 90000

E-103 SBT 40000

E-104 Federal 37000

E-105 SBT 17000

SQL> create table manages(emp\_id char(8) references emp(emp\_id),manager\_id char(8) references emp(emp\_id),unique(emp\_id,manager\_id));

Table created.

SQL> insert into manages values('E-101','E-102');

1 row created.

SQL> insert into manages values('E-102',NULL);

1 row created.

SQL> insert into manages values('E-103','E-110');

1 row created.

SQL> insert into manages values('E-104','E-111');

1 row created.

SQL> insert into manages values('E-105','E-110');

1 row created.

SQL> select \* from manages;

EMP\_ID MANAGER\_

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E-101 E-102

E-102

E-103 E-110

E-104 E-111

E-105 E-110

A) SQL> select emp\_name from works,emp where company\_name='SBI' and emp.emp\_id=works.emp\_id;

EMP\_NAME

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Adarsh

Bonny

B) SQL> select emp.emp\_name from emp,works,company where emp.emp\_id=works.emp\_id and works.company\_name=company.company\_name and emp.city=company.city;

EMP\_NAME

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Adarsh

Bonny

C) SQL> select emp\_id from works w1,(select avg(salary) as avgsal,company\_name from works group by company\_name) w2 where w1.company\_name=w2.company\_name and w1.salary>w2.avgsal;

EMP\_ID

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E-102

E-103

D) SQL> update works set salary=salary\*1.1 where emp\_id in (select manager\_id from manages) and company\_name='SBI';

1 row updated.

SQL> select \* from works;

EMP\_ID COMPANY\_NAME SALARY

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E-101 SBI 71000

E-102 SBI 99000

E-103 SBT 40000

E-104 Federal 37000

E-105 SBT 17000

E) SQL> select company\_name from works group by company\_name having count(emp\_id)>=all(select count(emp\_id)from works group by company\_name);

COMPANY\_NAME

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SBI

SBT

SQL> select \* from works;

EMP\_ID COMPANY\_NAME SALARY

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E-101 SBI 71000

E-102 SBI 99000

E-103 SBT 40000

E-104 Federal 37000

E-105 SBT 17000

F) SQL> select company\_name from works group by company\_name having avg (salary)>(select avg(salary) from works group by company\_name having company\_name='SBT');

COMPANY\_NAME

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SBI

SQL> commit;

Commit complete.

SQL> commit;