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.

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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
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

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

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

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

SBI

SBT

SQL> select * from works;

EMP_ID COMPANY_NAME SALARY

-------- ------------------ ----------

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

SBI

SQL> commit;

Commit complete.

SQL> commit;