```
SQL*Plus: Release 21.0.0.0.0 - Production on Tue Sep 10 12:07:24 2024
Version 21.3.0.0.0

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Enter user-name: system
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Last Successful login time: Tue Sep 10 2024 11:35:08 +05:30

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> create table Employee(employee_name varchar(20)primary key,street
varchar(20),city varchar(20));

Table created.

SQL> select *from Employee;

EMPLOYEE_NAME        STREET               CITY
-------------------- -------------------- --------------------
Suraj                Pune-Nashik          Nagar
Anish                Nashik-Nagar         Nashik
Chintamani           Nashik-Mumbai        Khed
Vikram               Pune-Solapur         Solapur

SQL> create table Company(company_name varchar(30)primary key,city varchar(20));

Table created.

SQL> select *from Company;

COMPANY_NAME                   CITY
------------------------------ --------------------
First Bank Coorporation        Nagar
Jio                            Pune
Google                         Gotham
Wipro                          Mumbai

SQL> create table Works(employee_name varchar(20),company_name
varchar(30),salary int,primary key(employee_name,company_name),foreign
key(employee_name) references Employee(employee_name),foreign key
(company_name)references Company(company_name));

Table created.

SQL> select *from Works;

EMPLOYEE_NAME        COMPANY_NAME                     SALARY
-------------------- ------------------------------ ----------
Suraj                First Bank Coorporation             25000
Anish                First Bank Coorporation             35000
Chintamani           Jio                                 50000
Vikram               Google                              10000

SQL> create table Manages(employee_name varchar(20),manager_name
varchar(20),primary key(emplo
yee_name,manager_name),foreign key(employee_name) references
Employee(employee_name),foreign k
ey (manager_name)references Company(company_name));

Table created.
```

```
SQL> select *from Manages;

EMPLOYEE_NAME        MANAGER_NAME
-------------------- --------------------
Suraj                Anish
Anish                Chintamani
Chintamani           Suraj
Vikram               Chintamani
```

1. Find the names of employees who work for First Bank Coorporation.

```
SQL> select employee_name from Works where company_name='First Bank
Coorporation';

EMPLOYEE_NAME
--------------------
Suraj
Anish
```

2. Find the names and cities of residence of all employees who work for First Bank Coorporation

```
SQL> select e.employee_name,e.city from Employee e join Works w on
e.employee_name=w.employee_name where w.company_name ='First Bank Coorporation';

EMPLOYEE_NAME        CITY
-------------------- --------------------
Suraj                Nagar
Anish                Nashik
```

3. Find the names, street addresses, and cities of residence of all employees who work for First
Bank Coorporation and earn more than $10000.

```
SQL> select e.employee_name,e.street,e.city from Employee e join Works w on
e.employee_name=w.
employee_name where w.company_name ='First Bank Coorporation' and
w.salary>10000;

EMPLOYEE_NAME        STREET               CITY
-------------------- -------------------- --------------------
Suraj                Pune-Nashik          Nagar
Anish                Nashik-Nagar         Nashik
```

4.Find all employees in the database who lives in the same cities as tha companies for which they
work.

```
SQL> select e.employee_name from Employee e join Works w on
e.employee_name=w.employee_name join Company c on w.company_name=c.company_name
where e.city =c.city;

EMPLOYEE_NAME
--------------------
Suraj
```

5.Find all employees in the database who lives in the same cities and on the same streets as do
their manager.

```
SQL> select e.employee_name from Employee e join Manages m on
e.employee_name=m.employee_name join Employee manager on m.manager_name
=manager.employee_name where e.city=manager.city and e.street =manager.street;
```

```
no rows selected
```

6.Find all employees in the database who do not work for First Bank Coorporation.

```
SQL> select e.employee_name from Employee e where e.employee_name not in (select
w.employee_name from Works w where w.company_name='First Bank Coorporation');

EMPLOYEE_NAME
--------------------
Chintamani
Vikram
```

7.Find all employees in the database who earn more than each employee of Small Bank
Coorporation.

```
SQL> select e.employee_name from Works e where e.salary>all(select w.salary from
Works w where w.company_name='Small Bank Coorporation');

EMPLOYEE_NAME
--------------------
Vikram
Suraj
Anish
Chintamani
```

8.Assume that the company is may be located in several cities. Find all companies located in
every city in which Small Bank Coorporation is located.

```
SQL> select c.company_name from Company c where not exists(select city from
Company where company_name='Small Bank Coorporation'except select city from
company where company_name=c.company_name);

COMPANY_NAME
------------------------------
First Bank Coorporation
Jio
Google
Wipro
```

9.Find all employees who earn more than the average salary of all employees of their companies.

```
SQL> select e.employee_namefrom Works w join Employee e on w.employee_name =
e.employee_name where w.salary > (select avg(w2.salary) from Works w2 where
w2.company_name = w.company_name);

EMPLOYEE_NAME
--------------------
Anish
```

10.Find the company that has the most employees.

```
SQL> select company_name from Works group by company_name order by count
(employee_name) desc;

COMPANY_NAME
------------------------------
First Bank Coorporation
Google
Jio
```

11.Find the company that has the smallest payroll.

```
SQL> select company_name from Works group by company_name order by
sum(salary)asc;

COMPANY_NAME
------------------------------
Google
Jio
First Bank Coorporation
```

12.Find those companies whose employees earn a higher salary, on average, than the average
salary at First Bank Coorporation.

```
SQL> select c.company_name from Company c join Works w on
c.company_name=w.company_name group by c.company_name having
avg(w.salary)>(select avg(salary) from Works where company_name='First Bank
Coorporation');

COMPANY_NAME
------------------------------
Jio
```

13.Give all employees of First Bank Coorporationâ a 10% raise.

```
SQL> update Works set salary=salary*1.10 where company_name='First Bank
Coorporation';

2 rows updated.

SQL> select * from Works;

EMPLOYEE_NAME        COMPANY_NAME                    SALARY
-------------------- ------------------------------ ----------
Suraj                First Bank Coorporation             27500
Anish                First Bank Coorporation             38500
Chintamani           Jio                                 50000
Vikram               Google                              10000
```

```
SQL> insert into HighEarners(employee_name,salary) select employee_name,salary
from Works where salary>(select avg(salary)from Works);

2 rows created.
```

14. Insert the names and salaries of employees who earn more than the average salary into a new
table called HighEarners.

```
SQL> select *from HighEarners;

EMPLOYEE_NAME            SALARY
-------------------- ----------
Anish                     38500
Chintamani                50000
```

15. Delete employees from the Employee table who work for a company in the Company table
that is located in Gotham.

```
SQL>SQL> delete from Works where company_name in(select company_name from
Company where city='Gotham');

1 row deleted.
```

```
SQL> select *from Works;

EMPLOYEE_NAME        COMPANY_NAME                       SALARY
-------------------- ------------------------------ ----------
Suraj                First Bank Coorporation             27500
Anish                First Bank Coorporation             38500
Chintamani           Jio                                 50000
```