

DATABASE

CODE FOR TABLES :-

```
CREATE TABLE Employee (ename varchar2(10),city varchar2(10));
INSERT INTO Employee VALUES('Abhishek','Los Angeles');
INSERT INTO Employee VALUES('Sunil','Bombay');
INSERT INTO Employee VALUES('Rohan','Bombay');
INSERT INTO Employee VALUES('Abhijeet','Delhi');
INSERT INTO Employee VALUES('Kai','California');
INSERT INTO Employee VALUES('Tyson','Bombay');
INSERT INTO Employee VALUES('Max','Delhi');
```

```
CREATE TABLE Emp_Company (ename varchar2(10),cname varchar2(10),salary number(7,2),jdate DATE);
INSERT INTO Emp_Company VALUES('Abhishek','Apple',200000.00,'10-april-2023');
INSERT INTO Emp_Company VALUES('Sunil','Acc',20000.00,'11-may-2023');
INSERT INTO Emp_Company VALUES('Rohan','Acc',40000.00,'12-june-2023');
INSERT INTO Emp_Company VALUES('Abhijeet','Acc',7000.00,'13-july-2023');
INSERT INTO Emp_Company VALUES('Kai','Amazon',90000.00,'14-august-2023');
INSERT INTO Emp_Company VALUES('Tyson','Netflix',80000.00,'15-september-2023');
INSERT INTO Emp_Company VALUES('Max','Tata',18000.00,'16-october-2023');
```

```
CREATE TABLE Company (cname varchar2(10),city varchar2(10));
INSERT INTO Company VALUES('Apple','Bombay');
INSERT INTO Company VALUES('Acc','Delhi');
INSERT INTO Company VALUES('Netflix','California');
INSERT INTO Company VALUES('Amazon','Bangalore');
INSERT INTO Company VALUES('Tata','Bombay');
```

```
CREATE TABLE Manager (ename varchar2(10),mname varchar2(10));
INSERT INTO Manager VALUES('Abhishek','Krishna');
INSERT INTO Manager VALUES('Sunil','Kartik');
INSERT INTO Manager VALUES('Rohan','Rohit');
INSERT INTO Manager VALUES('Abhijeet','Hillary');
INSERT INTO Manager VALUES('Kai','Arjun');
INSERT INTO Manager VALUES('Tyson','Trump');
INSERT INTO Manager VALUES('Max','Emmaneul');
```

```
CREATE TABLE Emp_Shift (ename varchar2(10),shift varchar2(1));
INSERT INTO Emp_Shift VALUES('Abhishek','A');
INSERT INTO Emp_Shift VALUES('Sunil','B');
INSERT INTO Emp_Shift VALUES('Rohan','B');
INSERT INTO Emp_Shift VALUES('Abhijeet','B');
INSERT INTO Emp_Shift VALUES('Kai','A');
INSERT INTO Emp_Shift VALUES('Tyson','A');
INSERT INTO Emp_Shift VALUES('Max','B');
```

```
SELECT * FROM Employee;
SELECT * FROM Emp_Company;
SELECT * FROM Company;
SELECT * FROM Manager;
SELECT * FROM Emp_Shift;
```

OUTPUT FOR TABLES :-

ename	city
Abhishek	Los Angeles
Sunil	Bombay
Rohan	Bombay
Abhijeet	Delhi
Kai	California
Tyson	Bombay
Max	Delhi

ename	cname	salary	jdate
Abhishek	Apple	200000	10-april-2023
Sunil	Acc	20000	11-may-2023
Rohan	Acc	40000	12-june-2023
Abhijeet	Acc	7000	13-july-2023
Kai	Amazon	90000	14-august-2023
Tyson	Netflix	80000	15-september-2023
Max	Tata	18000	16-october-2023

cname	city
Apple	Bombay
Acc	Delhi
Netflix	California
Amazon	Bangalore
Tata	Bombay

ename	mname
Abhishek	Krishna
Sunil	Kartik
Rohan	Rohit
Abhijeet	Hillary
Kai	Arjun
Tyson	Trump
Max	Emmaneul

ename	shift
Abhishek	A
Sunil	B
Rohan	B
Abhijeet	B
Kai	A
Tyson	A
Max	B

QUERIES (In Clause) :-

Q.1] Find the employee names and cities they live in for the employee working in company 'Acc'.

→

Query :-

```
SELECT * FROM Employee
WHERE ename IN (SELECT ename
                FROM Emp_Company
                WHERE cname = 'Acc');
```

Output :-

ename	city
Sunil	Bombay
Rohan	Bombay
Abhijeet	Delhi

Q.2] List the employees living in city Bombay and those having company located in Delhi.

→

Query :-

```
SELECT ec.ename
FROM Emp_Company ec
WHERE ec.ename IN (SELECT e.ename
                  FROM Employee e
                  WHERE e.city = 'Bombay') AND
ec.cname IN (SELECT c.cname
            FROM Company c
            WHERE c.city = 'Delhi');
```

Output :-

ename
Sunil
Rohan

Q.3] List the names of employees living in same city where Sunil is living.

→

Query :-

```
SELECT e2.ename
FROM Employee e2
WHERE e2.city IN (SELECT e1.city
                  FROM Employee e1
                  WHERE e1.ename = 'Sunil');
```

Output :-

ename
Sunil
Rohan
Tyson

QUERIES (Exists Clause) :-

Q.1] List the names of employees living in same city where Sunil is living.

→

Query :-

```
SELECT e2.ename
FROM Employee e2
WHERE Exists (SELECT e1.city
              FROM Employee e1
              WHERE e1.ename = 'Sunil' AND e2.city = e1.city);
```

Output :-

ename
Sunil
Rohan
Tyson

Q.2] Give the salary of Employee living in Delhi.

→

Query :-

```
SELECT ec.salary FROM Emp_Company ec
WHERE Exists (SELECT e.ename
              FROM Employee e
              WHERE e.city = 'Delhi' AND e.ename = ec.ename);
```

Output :-

salary
7000
18000

Q.3] Give the names of companies located in those cities where Tata is located.

→

Query :-

```
SELECT c2.cname
FROM Company c2
WHERE Exists (SELECT c1.city
              FROM Company c1
              WHERE c1.cname = 'Tata' AND c1.city = c2.city);
```

Output :-

cname
Apple
Tata