NAME: Neha Vithob Nayak

USN: 2SD22CS129

SUBJECT: Database Management System

BRANCH: CSE SEM: 5th

COLLEGE: SDM College of Engineering and Technology Dharwad.

Q1. Consider the schema:

```
EMPLOYEE (EmpID#, Empname, DOB, State, City, Street)
WORKS (EmpID#, CompanyName, Salary)
LOCATION (CompanyName#, City#)
MANAGES (ManagerEMPID#, EmpID#)
```

CREATE STATEMENTS:

1. EMPLOYEE Table

```
CREATE TABLE EMPLOYEE (
EmpID INT PRIMARY KEY,
Empname VARCHAR(100) NOT NULL,
DOB DATE NOT NULL,
State VARCHAR(50),
City VARCHAR(50),
Street VARCHAR(100)
);
```

2. WORKS Table

```
CREATE TABLE WORKS (
EmpID INT PRIMARY KEY,
CompanyName VARCHAR(100) NOT NULL,
Salary DECIMAL(10, 2),
FOREIGN KEY (EmpID) REFERENCES EMPLOYEE(EmpID)
);
```

3. LOCATION Table

```
CREATE TABLE LOCATION (
CompanyName VARCHAR(100) PRIMARY KEY,
City VARCHAR(50) NOT NULL
):
```

4. MANAGES Table

```
CREATE TABLE MANAGES (
    ManagerEMPID INT NOT NULL,
    EmpID INT PRIMARY KEY,
    FOREIGN KEY (ManagerEMPID) REFERENCES EMPLOYEE(EmpID),
    FOREIGN KEY (EmpID) REFERENCES EMPLOYEE(EmpID)
);
```

DISPLAY EACH TABLE:

1. EMPLOYEE Table

SELECT * FROM EMPLOYEE;

EmpID	Empname	DOB	State	City	Street
1 2 3 4 5 6 7	Alice Bob Charlie Diana Frank Grace Hannah Ivy	1990-01-15 1985-07-22 1992-03-09 1993-12-01 1988-11-10 1990-05-05 1987-03-14 1991-06-25	Karnataka Maharashtra Karnataka Maharashtra Gujarat Gujarat Maharashtra Karnataka	Bangalore Mumbai Bangalore Pune Ahmedabad Ahmedabad Mumbai Bangalore	FC Road Ashram Road Ashram Road Andheri East

2. WORKS Table

SELECT * FROM WORKS;

1	·		
EmpID	CompanyName	Salary	
1	TechCorp	70000.00	
2	MediLife	60000.00	
3	TechCorp	75000.00	
4	InnoSoft	50000.00	
5	RELIANCE_SHOP	95000.00	
6	RELIANCE_SHOP	88000.00	
7	RELIANCE_SHOP	55000.00	
8	RELIANCE_SHOP	60000.00	
+	+	++	

3. LOCATION Table

SELECT * FROM LOCATION;

CompanyName	 City
+ InnoSoft MediLife RELIANCE_SHOP TechCorp	Pune Mumbai Ahmedabad Bangalore

4. MANAGES Table

SELECT * FROM MANAGES;

1	
2 5	3 4 6

Write the SQL statements.

a) Find the names of all the employees who have born on Monday and live in the same city as company for which they work.

```
SELECT E.Empname
FROM EMPLOYEE E
JOIN WORKS W ON E.EmpID = W.EmpID
JOIN LOCATION L ON W.CompanyName = L.CompanyName
WHERE TO_CHAR(E.DOB, 'Day') = 'Monday'
AND E.City = L.City;
```



b) Find the names of all the employees who live in the same city and on same street as their manager.

```
SELECT E.Empname
FROM EMPLOYEE E
JOIN MANAGES M ON E.EmpID = M.EmpID
JOIN EMPLOYEE MGR ON M.ManagerEMPID = MGR.EmpID
WHERE E.City = MGR.City
AND E.Street = MGR.Street;
```



c) Find the details of all employees who are the top THREE salary taker in RELIANCE_SHOP

```
SELECT EmpID, Empname, Salary
FROM (
SELECT E.EmpID, E.Empname, W.Salary
FROM EMPLOYEE E
JOIN WORKS W ON E.EmpID = W.EmpID
WHERE W.CompanyName = 'RELIANCE_SHOP'
ORDER BY W.Salary DESC
)
WHERE ROWNUM <= 3;
```

