5.employee (employee-name, street, city), works (employee-name, company-name, salary), company (companyname, city), manages (employee-name, manager-name) 1. Create above tables and insert 5 rows in each table. 2. Find the names, street address, and cities of residence for all employees who work for 'First Bank Corporation' and earn more than $10,000. 3. Find the names of all employees in the database who live in the same cities as the companies for which they work. 4. Find average salary of employees of ‘First Bank Corporation’. 5. Give employees of ‘First Bank Corporation’ 15% rise if salary is less than 20000.

-- Create the employee table

CREATE TABLE employee (

employee\_name VARCHAR(50),

street VARCHAR(50),

city VARCHAR(50),

PRIMARY KEY (employee\_name)

);

-- Create the works table

CREATE TABLE works (

employee\_name VARCHAR(50),

company\_name VARCHAR(50),

salary INT,

PRIMARY KEY (employee\_name, company\_name),

FOREIGN KEY (employee\_name) REFERENCES employee(employee\_name)

);

-- Create the company table

CREATE TABLE company (

company\_name VARCHAR(50),

city VARCHAR(50),

PRIMARY KEY (company\_name)

);

-- Create the manages table

CREATE TABLE manages (

employee\_name VARCHAR(50),

manager\_name VARCHAR(50),

PRIMARY KEY (employee\_name, manager\_name)

);

-- Insert records into employee table

INSERT INTO employee (employee\_name, street, city) VALUES

('Alice', '123 Main St', 'New York'),

('Bob', '456 Elm St', 'Los Angeles'),

('Charlie', '789 Maple Ave', 'Chicago'),

('David', '101 Oak St', 'New York'),

('Eve', '202 Pine St', 'Chicago');

-- Insert records into company table

INSERT INTO company (company\_name, city) VALUES

('First Bank Corporation', 'New York'),

('Tech Solutions', 'Los Angeles'),

('Finance Corp', 'Chicago'),

('Marketing Experts', 'New York'),

('Innovatech', 'San Francisco');

-- Insert records into works table

INSERT INTO works (employee\_name, company\_name, salary) VALUES

('Alice', 'First Bank Corporation', 12000),

('Bob', 'Tech Solutions', 15000),

('Charlie', 'Finance Corp', 18000),

('David', 'Marketing Experts', 14000),

('Eve', 'First Bank Corporation', 9000);

-- Insert records into manages table

INSERT INTO manages (employee\_name, manager\_name) VALUES

('Alice', 'David'),

('Bob', 'Charlie'),

('Charlie', 'Bob'),

('David', 'Eve'),

('Eve', 'Alice');

-- Find names, street addresses, and cities of residence for all employees who work for 'First Bank Corporation' and earn more than $10,000

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 Corporation' AND w.salary > 10000;

-- Find names of all employees who live in the same cities as the companies for which they work

SELECT DISTINCT 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;

-- Find average salary of employees of 'First Bank Corporation'

SELECT AVG(salary) AS average\_salary

FROM works

WHERE company\_name = 'First Bank Corporation';

-- Give employees of 'First Bank Corporation' a 15% raise if their salary is less than $20,000

UPDATE works

SET salary = salary \* 1.15

WHERE company\_name = 'First Bank Corporation' AND salary < 20000;

Alternate code

-- Creating employee table

CREATE TABLE employee (

employee\_name VARCHAR2(50),

street VARCHAR2(100),

city VARCHAR2(50),

PRIMARY KEY (employee\_name)

);

-- Creating works table

CREATE TABLE works (

employee\_name VARCHAR2(50),

company\_name VARCHAR2(50),

salary INT,

PRIMARY KEY (employee\_name, company\_name),

FOREIGN KEY (employee\_name) REFERENCES employee(employee\_name),

FOREIGN KEY (company\_name) REFERENCES company(company\_name)

);

-- Creating company table

CREATE TABLE company (

company\_name VARCHAR2(50),

city VARCHAR2(50),

PRIMARY KEY (company\_name)

);

-- Creating manages table

CREATE TABLE manages (

employee\_name VARCHAR2(50),

manager\_name VARCHAR2(50),

PRIMARY KEY (employee\_name),

FOREIGN KEY (employee\_name) REFERENCES employee(employee\_name),

FOREIGN KEY (manager\_name) REFERENCES employee(employee\_name)

);

-- Inserting data into employee table

INSERT INTO employee (employee\_name, street, city)

VALUES ('John Doe', '123 Elm St', 'New York');

INSERT INTO employee (employee\_name, street, city)

VALUES ('Jane Smith', '456 Oak St', 'San Francisco');

INSERT INTO employee (employee\_name, street, city)

VALUES ('Alice Johnson', '789 Pine St', 'Chicago');

INSERT INTO employee (employee\_name, street, city)

VALUES ('Bob Brown', '101 Maple St', 'Los Angeles');

INSERT INTO employee (employee\_name, street, city)

VALUES ('Charlie White', '202 Birch St', 'San Francisco');

-- Inserting data into company table

INSERT INTO company (company\_name, city)

VALUES ('First Bank Corporation', 'New York');

INSERT INTO company (company\_name, city)

VALUES ('Tech Solutions', 'San Francisco');

INSERT INTO company (company\_name, city)

VALUES ('Global Enterprises', 'Chicago');

INSERT INTO company (company\_name, city)

VALUES ('Finance Group', 'Los Angeles');

INSERT INTO company (company\_name, city)

VALUES ('Retail World', 'San Francisco');

-- Inserting data into works table

INSERT INTO works (employee\_name, company\_name, salary)

VALUES ('John Doe', 'First Bank Corporation', 12000);

INSERT INTO works (employee\_name, company\_name, salary)

VALUES ('Jane Smith', 'Tech Solutions', 9000);

INSERT INTO works (employee\_name, company\_name, salary)

VALUES ('Alice Johnson', 'Global Enterprises', 15000);

INSERT INTO works (employee\_name, company\_name, salary)

VALUES ('Bob Brown', 'First Bank Corporation', 18000);

INSERT INTO works (employee\_name, company\_name, salary)

VALUES ('Charlie White', 'Retail World', 20000);

-- Inserting data into manages table

INSERT INTO manages (employee\_name, manager\_name)

VALUES ('John Doe', 'Alice Johnson');

INSERT INTO manages (employee\_name, manager\_name)

VALUES ('Jane Smith', 'Bob Brown');

INSERT INTO manages (employee\_name, manager\_name)

VALUES ('Alice Johnson', 'Charlie White');

INSERT INTO manages (employee\_name, manager\_name)

VALUES ('Bob Brown', 'John Doe');

INSERT INTO manages (employee\_name, manager\_name)

VALUES ('Charlie White', 'Jane Smith');

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 Corporation'

AND w.salary > 10000;

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;

SELECT AVG(w.salary) AS avg\_salary

FROM works w

WHERE w.company\_name = 'First Bank Corporation';

UPDATE works

SET salary = salary \* 1.15

WHERE company\_name = 'First Bank Corporation'

AND salary < 20000;