CREATE DATABASE Q1;

USE Q1;

-- Creating Tables

create table employee (

eid int primary key,

ename varchar(50),

salary decimal(10,2)

);

create table manager (

eid int primary key,

ename varchar(50)

);

create table project (

projectid int primary key,

project\_name varchar(50),

manager int,

foreign key(manager) references manager(eid)

);

create table assignment (

projectid int,

eid int,

primary key (projectid, eid),

foreign key(projectid) references project(projectid),

foreign key(eid) references employee(eid)

);

-- inserting data in tables

INSERT INTO employee (eid, ename, salary, address) VALUES

(1, 'Alice', 45000, '123 Main St'),

(2, 'Bob', 35000, '456 Elm St'),

(3, 'Charlie', 50000, '789 Oak St'),

(4, 'Diana', 30000, '321 Pine St');

INSERT INTO manager (eid, ename) VALUES

(5, 'Eve'),

(6, 'Frank');

INSERT INTO project (projectid, project\_name, manager) VALUES

(101, 'Bank Management', 5),

(102, 'E-Commerce', 6),

(103, 'Healthcare System', 5);

INSERT INTO assignment (projectid, eid) VALUES

(101, 1), -- Alice works on Bank Management

(101, 2), -- Bob works on Bank Management

(102, 3), -- Charlie works on E-Commerce

(103, 4), -- Diana works on Healthcare System

(103, 1); -- Alice works on Healthcare System

-- Queries

-- Alter table to add address in the employee table

alter table employee add address varchar(100);

-- Display employee name and projects on which they are working

select e.ename, p.project\_name

from employee e

join assignment a on e.eid = a.eid

join project p on a.projectid = p.projectid;

-- Display projectid, projectname, and their managers

select p.projectid, p.project\_name, m.ename as manager\_name

from project p

join manager m on p.manager = m.eid;

-- Create view of employees working on 'Bank Management' project

create view bank\_management\_employees as

select e.eid, e.ename, e.salary

from employee e

join assignment a on e.eid = a.eid

join project p on a.projectid = p.projectid

where p.project\_name = 'Bank Management';

select \* from bank\_management\_employees;

-- Print names of employees whose salary is greater than 40000

select e.ename from employee e

where e.salary > 40000;

-- Update salary of each employee with an increase of 2000

update employee

set salary = salary + 2000;

select \* from employee;