create database q2;

use q2;

create table employee (

eid int auto\_increment primary key,

ename varchar(255),

salary decimal(10,2)

);

create table manager (

eid int primary key,

ename varchar(255),

foreign key(eid) references employee(eid)

);

create table project (

projectid int primary key,

project\_name varchar(255),

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

INSERT INTO employee (ename, salary) VALUES

('Alice', 50000),

('Bob', 60000),

('Charlie', 55000),

('David', 48000),

('Eve', 70000);

INSERT INTO manager (eid, ename) VALUES

(1, 'Alice'),

(2, 'Bob');

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

(101, 'Bank Management', 1),

(102, 'Content Management', 2),

(103, 'Inventory Management', 1);

INSERT INTO assignment (projectid, eid) VALUES

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

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

(102, 1), -- Alice works on Content Management

(102, 3), -- Charlie works on Content Management

(103, 4), -- David works on Inventory Management

(101, 5); -- Eve works on Bank Management

-- Queries

-- Modify eid to use auto\_increment

alter table employee modify eid int auto\_increment;

-- Display employees working in both projects 'Bank Management' and 'Conent Management'

SELECT e.eid, e.ename

FROM employee e

JOIN assignment a1 ON e.eid = a1.eid

JOIN project p1 ON a1.projectid = p1.projectid

JOIN assignment a2 ON e.eid = a2.eid

JOIN project p2 ON a2.projectid = p2.projectid

WHERE p1.project\_name = 'Bank Management' AND p2.project\_name = 'Content Management';

-- Display average salary of the organization

select avg(salary) as average\_salary from employee;

-- Employees who do not work in 'Bank Management'

select e.eid, e.ename

from employee e

where e.eid not in (

select a.eid

from assignment a

join project p on a.projectid = p.projectid

where p.project\_name = 'Bank Management'

);

DELETE FROM assignment WHERE eid = 5;

DELETE FROM manager WHERE eid = 5;

delete from employee where eid = 5;

select eid, ename, salary from employee

where salary = (select max(salary) from employee);