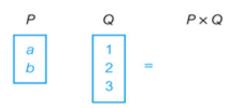
Exercise 4: Join Operation

1- Find the output of $P \times Q$



2- Based on the following table, Find the output of

Department ⋈ Project

Dnumber =Dno

Department	Dnumber	Dname
	1	D1
	2	D2
	3	D3
	4	D4
	5	D5

Project	Pno	Pname	Dno
	1001	AAA	1
	2001	BBB	2
	3002	CCC	2
	4003	DDD	3

Department ⋈ Project

Dnumber =Dno

Example: based on the following diagram,

- 1- retrieve name of the manger for each department.
- 2- Retrieve name of the project and name of the controlling department.

EMPLOYEE Fname Bdate Sex Salary Minit Lname Ssn Address Super_ssn Dno **DEPARTMENT** Dname <u>Dnumber</u> Mgr_ssn | Mgr_start_date DEPT_LOCATIONS Dlocation <u>Dnumber</u> **PROJECT** Pname <u>Pnumber</u> Plocation Dnum WORKS_ON Essn <u>Pno</u> Hours **DEPENDENT** Essn Dependent_name Sex Bdate Relationship