

- Add a new column in **Employees** Table : **DepartmentId** bigint (null)
- Add a one to many relationship with the **Departments** Table (**Id**).
- Update all employees and add departmentId for each employee and leave some null.
- Write a query that returns all employees and their departments if it is found, with the following columns:
 - EmployeeId.
 - EmployeeName.
 - DepartmentId.
 - DepartmentName.

Answer :

-- modify table with sql instead of using the interface

ALTER TABLE Employees

ADD DepartmentId BIGINT NULL;

-- modify table with sql instead of using the interface

ALTER TABLE Employees

ADD CONSTRAINT FK_Employees_Departments

FOREIGN KEY (DepartmentId) REFERENCES Departments(Id);

UPDATE Employees SET DepartmentId = 1 WHERE Id = 1; -- IT Department

UPDATE Employees SET DepartmentId = 2 WHERE Id = 2; -- HR Department

UPDATE Employees SET DepartmentId = 1 WHERE Id = 3; -- IT Department

UPDATE Employees SET DepartmentId = NULL WHERE Id = 4; -- No Department

select

employees.ID as EmployeeId,

employees.Name as EmployeeName,

departments.Id as DepartmentId,

departments.Name as DepartmentName

from employees

left join departments on Employees.DepartmentId = departments.id;