

SQL Developer Internship - Task 5 Alternate Code

-- Create Tables

```
CREATE TABLE Employees (  
    EmpID INTEGER PRIMARY KEY,  
    EmpName TEXT,  
    DepartmentID INTEGER  
);
```

```
CREATE TABLE Departments (  
    DepartmentID INTEGER PRIMARY KEY,  
    DepartmentName TEXT  
);
```

-- Insert Sample Data

```
INSERT INTO Employees (EmpID, EmpName, DepartmentID) VALUES  
(1, 'John', 10),  
(2, 'Emma', 20),  
(3, 'Mike', NULL),  
(4, 'Sophia', 30);
```

```
INSERT INTO Departments (DepartmentID, DepartmentName) VALUES  
(10, 'HR'),  
(20, 'Finance'),  
(40, 'IT');
```

-- INNER JOIN: Employees with matching Departments

```
SELECT EmpName, DepartmentName  
FROM Employees  
INNER JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```

-- LEFT JOIN: All Employees, with Departments if any

```
SELECT EmpName, DepartmentName  
FROM Employees  
LEFT JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```

-- RIGHT JOIN: All Departments, with Employees if any

```
SELECT EmpName, DepartmentName  
FROM Employees  
RIGHT JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```

-- FULL OUTER JOIN: All Employees and all Departments

```
SELECT EmpName, DepartmentName  
FROM Employees  
FULL OUTER JOIN Departments ON Employees.DepartmentID = Departments.DepartmentID;
```