

SQLite3 Exercises

Scenario: Employee Management System

A company maintains a database with two tables:

- **Employees:** Stores information about employees.

| EmployeeID | Name | DepartmentID | Salary | HireDate |
|------------|---------|--------------|--------|------------|
| 1 | Alice | 101 | 70000 | 2021-01-15 |
| 2 | Bob | 102 | 60000 | 2020-03-10 |
| 3 | Charlie | 101 | 80000 | 2022-05-20 |
| 4 | Diana | 103 | 75000 | 2019-07-25 |

- **Departments:** Stores information about departments.

| DepartmentID | DepartmentName |
|--------------|----------------|
| 101 | HR |
| 102 | IT |
| 103 | Finance |

Questions

- Q1.** Write a query to list the names of employees hired after January 1, 2021.
- Q2.** Write a query to calculate the average salary of employees in each department.
- Q3.** Write a query to find the department name where the total salary is the highest.
- Q4.** Write a query to list all departments that currently have no employees assigned.
- Q5.** Write a query to fetch all employee details along with their department names.