**SQLite3 Exercises: Employee Management System**

**Questions**

**Q1. Write a query to list the names of employees hired after January 1, 2021.**

SELECT name

FROM Employees

WHERE hire\_date > '2021-01-01';

**Q2. Write a query to calculate the average salary of employees in each department.**

SELECT Departments.name AS department\_name, AVG(Employees.salary) AS average\_salary

FROM Employees

JOIN Departments ON Employees.department\_id = Departments.id

GROUP BY Departments.name;

**Q3. Write a query to find the department name where the total salary is the highest.**

SELECT Departments.name AS department\_name

FROM Employees

JOIN Departments ON Employees.department\_id = Departments.id

GROUP BY Departments.name

ORDER BY SUM(Employees.salary) DESC

LIMIT 1;

**Q4. Write a query to list all departments that currently have no employees assigned.**

SELECT name

FROM Departments

WHERE id NOT IN (SELECT department\_id FROM Employees);

**Q5. Write a query to fetch all employee details along with their department names.**

SELECT Employees.\*, Departments.name AS department\_name

FROM Employees

JOIN Departments ON Employees.department\_id = Departments.id;