Title: Sub Queries

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1. Display Last Name and Hire Date of Employees in the Same Department as the Given Employee (Excluding the Given Employee):

Query:

```
SELECT last_name, hire_date
FROM employees
WHERE department_id = (SELECT department_id
                       FROM employees
                       WHERE last_name = '&Employee_Last_Name')
AND last_name <> '&Employee_Last_Name';
```

Output:

last_name	hire_date
Clark	2018-05-14
Turner	2019-11-01

This output shows all employees in the same department as Zlotkey, excluding Zlotkey.

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2. Report of Employees Earning More Than the Average Salary:

Query:

```
SELECT employee_id, last_name, salary
FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees)
ORDER BY salary ASC;
```

Expected Output:

employee_id	last_name	salary
103	Taylor	5000
104	Miller	5500
105	Allen	6000

This output lists employees earning more than the average salary, sorted by ascending salary.

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3. Employees in Departments with Any Employee Whose Last Name Contains 'u':

Query:

```
SELECT employee_id, last_name
FROM employees
WHERE department_id IN (SELECT department_id
                        FROM employees
                        WHERE last_name LIKE '%u%');
```

Expected Output:

employee_id	last_name
101	Adams
102	Turner
106	Curtis

This output lists all employees working in departments where at least one employee's last name contains a 'u'.

4. Report of Employees Whose Department Location ID is 1700:

Query:

```
SELECT last_name, department_id, job_id
FROM employees
WHERE department_id IN (SELECT department_id
                        FROM departments
                        WHERE location_id = 1700);
```

Expected Output:

last_name	department_id	job_id
Anderson	10	HR_REP
Johnson	20	AC_MGR

This output lists employees in departments located at location ID 1700.

5. Report of Employees Who Report to King:

Query:

```
SELECT last_name, salary
FROM employees
WHERE manager_id = (SELECT employee_id
                    FROM employees
                    WHERE last_name = 'King');
```

Expected Output:

last_name	salary
Smith	6000
Harris	5500

This output lists employees who report directly to King.

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6. Report of Employees in the Executive Department:

Query:

```
SELECT department_id, last_name, job_id
FROM employees
WHERE department_id = (SELECT department_id
                       FROM departments
                       WHERE department_name = 'Executive');
```

Expected Output:

department_id	last_name	job_id
10	Anderson	CEO
10	Brown	COO

This output lists employees in the Executive department.

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7. Employees Earning More Than the Average Salary and Working in a Department with Any Employee Whose Last Name Contains 'u':

Query:

```
SELECT employee_id, last_name, salary
FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees)
AND department_id IN (SELECT department_id
                      FROM employees
                      WHERE last_name LIKE '%u%');
```

Expected Output:

employee_id	last_name	salary
107	Adams	7000
108	Turner	7500

This output lists employees earning more than the average salary and working in departments where an employee's last name contains a 'u'.