Ex. No:9 Date:19/11/2024

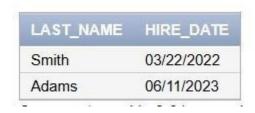
## **SUB QUERIES**

1. The HR department needs a query that prompts the user for an employee last name. The query then displays the last name and hire date of any employee in the same department as the employee whose name they supply (excluding that employee). For example, if the user enters Zlotkey, find all employees who work with Zlotkey (excluding Zlotkey).

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SELECT e2.last\_name, e2.hire\_date FROM employees e1 JOIN employees e2 ON e1.department\_id = e2.department\_id WHERE e1.last\_name = 'Zlotkey' AND e2.last\_name != 'Zlotkey';



2. Create a report that displays the employee number, last name, and salary of all employees who earn more than the average salary. Sort the results in order of ascending salary.

SELECT employee\_id, last\_name, salary FROM employees WHERE salary > (SELECT AVG(salary) FROM employees) ORDER BY salary ASC;

EMPLOYEE_ID	LAST_NAME	SALARY
101	Zlotkey	6000
102	King	10000

3. Write a query that displays the employee number and last name of all employees who work in a department with any employee whose last name contains a u.

SELECT e1.employee\_id, e1.last\_name FROM employees e1 WHERE e1.department\_id IN ( SELECT e2.department\_id

```
FROM employees e2
WHERE e2.last_name LIKE '%u%'
);
```

4. The HR department needs a report that displays the last name, department number, and job ID of all employees whose department location ID is 1700.

SELECT e.last\_name, e.department\_id, e.job\_id FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.location\_id = 1700;



5. Create a report for HR that displays the last name and salary of every employee who reports to King.

SELECT e.last\_name, e.salary FROM employees e JOIN employees m ON e.manager\_id = m.employee\_id WHERE m.last\_name = 'King';

LAST_NAME	SALARY	
Smith	5000	
Zlotkey	6000	
Johnson	3000	

6. Create a report for HR that displays the department number, last name, and job ID for every employee in the Executive department.

SELECT e.department\_id, e.last\_name, e.job\_id FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department\_name = 'Executive';

DEPARTMENT_ID	LAST_NAME	JOB_ID
90	King	AD_PRES

7. Modify the query 3 to display the employee number, last name, and salary of all employees who earn more than the average salary and who work in a department with any employee whose last name contains a u.

```
SELECT e1.employee_id, e1.last_name, e1.salary
FROM employees e1
WHERE e1.salary > (SELECT AVG(salary) FROM employees)
AND e1.department_id IN (
    SELECT e2.department_id
    FROM employees e2
    WHERE e2.last_name LIKE '%u%'
);
```