

EX NO: 9	SUB QUERIES
8/10/24	

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).

```
SELECT LAST_NAME, HIRE_DATE FROM EMPLOYEES WHERE DEPARTMENT_ID = ( SELECT
DEPARTMENT_ID FROM EMPLOYEES WHERE LAST_NAME = :last_name ) AND LAST_NAME
<> :last_name;
```

LAST_NAME	HIRE_DATE
Roberts	07/20/1998
Ross	03/25/1998
Martinez	08/20/2002
Gomez	09/25/2005
Young	12/12/2011

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
117	Clark	7500
109	Johnson	7800
114	Thompson	8000
118	Acevedo	8500
108	Adams	8500
116	Gomez	9000
176	Martinez	9000
107	Roberts	9500
115	Martinez	12000
120	Williams	13000

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 DISTINCT 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%' );
```

EMPLOYEE_ID	LAST_NAME
101	Austin
109	Johnson
112	Ross
102	Smith
118	Acevedo
119	Young
104	Davis
110	Baker
105	Austin
107	Roberts
115	Martinez
116	Gomez

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.DEPT_ID WHERE d.LOCATION_ID = 1700;
```

LAST_NAME	DEPARTMENT_ID	JOB_ID
Brown	50	IT_PROG
Smith	50	SALES_REP
Williams	50	HR_REP
Clark	50	FIN_ANALYST
Williams	50	IT_PROG

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

```
SELECT LAST_NAME, SALARY FROM EMPLOYEES WHERE MANAGER_ID = ( SELECT
EMPLOYEE_ID FROM EMPLOYEES WHERE LAST_NAME = 'Green' );
```

LAST_NAME	SALARY
Smith	6000

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.DEPT_ID WHERE d.DEPT_NAME = 'Finance';
```

DEPARTMENT_ID	LAST_NAME	JOB_ID
80	Davis	SALES
80	Davis	SALES
80	Roberts	SALES_REP
80	Roberts	SALES_REP
80	Ross	SALES
80	Ross	SALES
80	Martinez	SALES_REP
80	Martinez	SALES_REP
80	Gomez	SALES_REP
80	Gomez	SALES_REP
80	Young	SALES_REP
80	Young	SALES_REP

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 e.EMPLOYEE_ID, e.LAST_NAME, e.SALARY FROM EMPLOYEES e WHERE e.SALARY >
(SELECT AVG(SALARY) FROM EMPLOYEES) AND e.DEPARTMENT_ID IN ( SELECT
e2.DEPARTMENT_ID FROM EMPLOYEES e2 WHERE e2.LAST_NAME LIKE '%u%' );
```

EMPLOYEE_ID	LAST_NAME	SALARY
118	Acevedo	8500
109	Johnson	7800
116	Gomez	9000
115	Martinez	12000
107	Roberts	9500