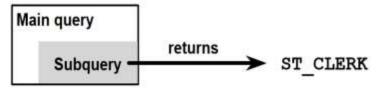
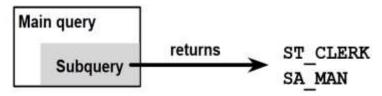
Subqueries

Single-row subquery



· Multiple-row subquery



1.SELECT last_name FROM employees WHERE salary >(SELECT salary FROM employeesWHERE last_name = 'Abel'**);**

Single-Row Subqueries

Return only one row Use single-row comparison operators

Operator	Meaning
=	Equal to
>	Greater than
>=	Greater than or equal to
<	Less than
<=	Less than or equal to
<>	Not equal to

- **2.**SELECT last_name, job_id FROM employees WHERE job_id = (SELECT job_id FROM employeesWHERE employee_id = 141);
- **3**. SELECT last_name, job_id, salary FROM employees WHERE job_id =(SELECT job_id FROM employees WHERE employee_id = 141) AND salary > (SELECT salary FROM employees WHERE employee id = 143);

Using Group Functions in a Subquery

4.SELECT last_name, job_id, salary FROM employees WHERE salary =(SELECT MIN(salary) FROM employees);

The HAVING Clause with Subqueries

- **5.**SELECT department_id, MIN(salary) FROM employees GROUP BY department_id HAVING MIN(salary) >(SELECT MIN(salary) FROM employees WHERE department_id = 50);
- **6.** SELECT job_id, AVG(salary) FROM employees GROUP BY job_id HAVING AVG(salary) = (SELECT MIN(AVG(salary)) FROM employees

Multiple-Row Subqueries

Return more than one row Use multiple-row comparison operators

Operator	Meaning
IN	Equal to any member in the list
ANY	Compare value to each value returned by the subquery
ALL	Compare value to every value returned by the subquery

MULTIPLE ROW SUBQUERY

7.SELECT last_name, salary, department_id FROM employeesWHERE salary IN (SELECT MIN(salary)FROM employees GROUP BY department_id);

8. SELECT last_name, salary, department_id FROM employees WHERE salary IN (2500, 4200, 4400, 6000, 7000, 8300, 8600, 1 7000);

Using the ANY Operator in Multiple-Row Subqueries

9.SELECT employee_id, last_name, job_id, salary FROM employees WHERE salary < ANY (SELECT salary FROM employees WHERE job_id = 'IT_PROG')

Using the ALL Operator

10.SELECT employee_id, last_name, job_id, salary FROM employees WHERE salary < ALL (SELECT salary FROM employees WHERE job_id = 'IT_PROG')