Database Programming with SQL

10-2: Single-Row Subqueries

Practice Activities

Objectives

* Construct and execute a single-row subquery in the WHERE clause or HAVING clause
* Construct and execute a SELECT statement using more than one subquery
* Construct and execute a SELECT statement using a group function in the subquery

Try It / Solve It

1. Write a query to return all those employees who have a salary greater than that of Lorentz and are

in the same department as Abel.

select first\_name, last\_name from employees

where salary > (select salary from employees where last\_name = 'Lorentz')

and department\_id = (select department\_id from employees where last\_name = 'Abel')

2. Write a query to return all those employees who have the same job id as Rajs and were hired after

Davies.

select first\_name, last\_name from employees

where job\_id = (select job\_id from employees where last\_name = 'Rajs')

and hire\_date > (select hire\_date from employees where last\_name = 'Davies')

3. What DJs on Demand events have the same theme code as event ID = 100?

SELECT id, name FROM d\_events

WHERE theme\_code = (SELECT theme\_code FROM d\_events WHERE id = 100);

4. What is the staff type for those Global Fast Foods jobs that have a salary less than those of any

Cook staff-type jobs?

select staff\_type from f\_staffs where

salary < (select min(salary) from f\_staffs where staff\_type = 'Cook')

5. Write a query to return a list of department id’s and average salaries where the department’s

average salary is greater than Ernst’s salary.

select department\_id, avg(salary) from employees

group by department\_id

having avg(salary) > (select salary from employees where last\_name = 'Ernst')

6. Return the department ID and minimum salary of all employees, grouped by department ID,

having a minimum salary greater than the minimum salary of those employees whose department

ID is not equal to 50.

select department\_id, min(salary) from employees

group by department\_id

having min(salary) > (select min(salary) from employees where department\_id ^= 50)