LAPORAN PRAKTIKUM PENGOLAHAN BASIS DATA MODUL SECTION 10?

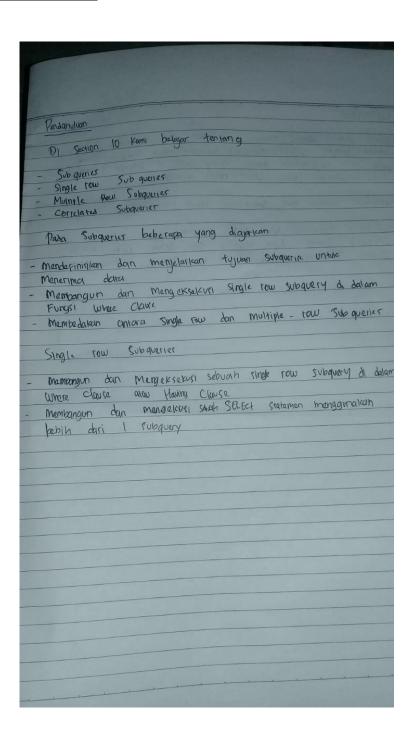
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Pengesahan

Tanggal:

Asisten	

A. Pendahuluan



B. Latihan

• Fundamentals of Subqueries

- 1. What is the purpose of using a subquery?
- 2. What are the names of the Global Fast Foods staff members whose salaries are greater than the staff member whose ID is 12?

 Single-Row Subqueries
- 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.
- 2. 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.

 Multiple-Row Subqueries
 - Find the last names of all employees whose salaries are the same as the minimum salary for any department.
 - Write a pair-wise subquery listing the last_name, first_name, department_id, and man-ager_id for all employees that have the same department_id and manager_id as em- ployee 141. Exclude employee 141 from the result set.

Correlated Subqueries

- 1. Write a query that lists the highest earners for each department. Include the last_name, department_id, and the salary for each employee.
- 2. Using a WITH clause, write a SELECT statement to list the job_title of those jobs whose maximum salary is more than half the maximum salary of the entire company. Name your subquery MAX_CALC_SAL. Name the columns in the result JOB_TITLE and JOB_TOTAL, and sort the result on JOB_TOTAL in descending order.

Hint: Examine the jobs table. You will need to join JOBS and EMPLOYEES to display the job_title.

JAWAB:

- Fundamentals of Subqueries
- 1. To find the intermediate information we need to extract information we want. E.g. extracting right part in WHERE/HAVING/FROM clause.
- 2. SELECT first_name,last_name

FROM f staffs

WHERE salary > (SELECT salary FROM f_staffs WHERE id = 12);

3. 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'):

4. SELECT department_id, TO_CHAR(ROUND(MIN(salary),2),'\$999999.99') "Minimum Salary"

FROM employees
GROUP BY department_id
HAVING MIN(salary) > (SELECT MIN(salary) from employees WHERE department id != 50);

5. SELECT last_name

FROM employees

WHERE salary in (SELECT MIN(salary) FROM employees GROUP BY department_id);

6. SELECT last_name, first_name, department_id, manager_id FROM employees

WHERE (NVL(department_id,-1), NVL(manager_id,-1)) = (SELECT NVL(department_id,-1), NVL(manager_id,-1) FROM employees WHERE employee_id = 141) AND employee_id != 141

- Correlated Subqueries
- 1. SELECT oe.last name, oe.department id, oe.salary

FROM employees oe

WHERE oe.salary = (SELECT MAX(ie.salary) FROM employees ie WHERE NVL(ie.department_id,-1) = NVL(oe.department_id,-1));

2. SELECT job_title, job_actual_max AS job_total

FROM max_calc_sal

WHERE job_actual_max > (SELECT MAX(job_actual_max)/2 FROM max_calc_sal) ORDER BY job_total DESC;

C. Kesimpulan

