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**UPA**

**Universidad Politécnica de Aguascalientes.**

**ISC06B**

**DATA BASE ADMINISTRATION**

# DP 10-2 PRACTICE

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**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.**

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| --- | --- |
| Problem No: 1 | No. Rows in Result: |
| 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.5 | 3 |
| Text Code (No image) : | |
| --DP-10-2  ---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, salary, department\_id  from employees  where salary > (select salary  from employees  where UPPER(last\_name) like 'LORENTZ')  AND department\_id = (select department\_id  from employees  where UPPER(last\_name) like 'ABEL'); | |
| Image Result: | |
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**2. Write a query to return all those employees who have the same job id as Rajs and were hired after Davie**

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| Problem No: 2 | No. Rows in Result: |
| 2. Write a query to return all those employees who have the same job id as Rajs and were hired after Davies | 2 |
| Text Code (No image) : | |
| --DP-10-2  --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, job\_id, hire\_date  from employees  where job\_id = (select job\_id  from employees  where upper(last\_name) like 'RAJS')  and hire\_date > (select hire\_date  from employees  where UPPER(last\_name) like 'DAVIES'); | |
| Image Result: | |
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**3. What DJs on Demand events have the same theme code as event ID = 100?**

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| Problem No: 3 | No. Rows in Result: |
| 3. What DJs on Demand events have the same theme code as event ID = 100? | 1 |
| Text Code (No image) : | |
| --DP 10-2  --3. What DJs on Demand events have the same theme code as event ID = 100?  select id,name, theme\_code  from d\_events  where theme\_code = (select theme\_code  from d\_events  where id=100)  and id <> 100; | |
| Image Result: | |
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**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?**

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| Problem No: 4 | No. Rows in Result: |
| 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? | 1 |
| Text Code (No image) : | |
| --DP 10-2  --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 first\_name, staff\_type, salary  from f\_staffs  where salary < any (select salary  from f\_staffs  where upper(staff\_type) like 'COOK'); | |
| Image Result: | |
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**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.**

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| Problem No: 5 | No. Rows in Result: |
| **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.** | 6 |
| Text Code (No image) : | |
| --DP 10-2  --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 upper(last\_name) like 'ERNST'); | |
| Image Result: | |
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**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.**

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| Problem No: 6 | No. Rows in Result: |
| **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.** | 6 |
| Text Code (No image) : | |
| --DP 10-2  --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); | |
| Image Result: | |
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