SQL part 6.1. Basic subqueries.

1. Display surnames and jobs of those employees who work in the same department as employee Johnson (do not display Johnson).

surname	job
Edwards	SECRETARY
Green	ASSISTANT
Lewis	ASSISTANT
White	LECTURER
Wilson	PROFESSOR
Young	ASSISTANT

2. Add to result of previous query departments names.

surname	job	dept_name
Edwards	SECRETARY	DISTRIBUTED SYSTEMS
Green	ASSISTANT	DISTRIBUTED SYSTEMS
Lewis	ASSISTANT	DISTRIBUTED SYSTEMS
White	LECTURER	DISTRIBUTED SYSTEMS
Wilson	PROFESSOR	DISTRIBUTED SYSTEMS
Young	ASSISTANT	DISTRIBUTED SYSTEMS

3. Find the longest-employed lecturer.

```
surname | job | hire_date
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White | LECTURER | 1977-09-01
```

4. For every department find the shortest-employed employee.

department	surname hire_date
ADMINISTRATION ALGORITHMS DISTRIBUTED SYSTEMS EXPERT SYSTEMS	Clark 1985-02-20 Jones 1973-05-01 Young 1993-10-01 Wood 1994-07-15

5. Find departments without employees.

6. Find professors who have not any phd students among their subordinates.

```
surname | job | salary

Jones | PROFESSOR | 3350.00

Williams | PROFESSOR | 3070.00
```

7. Find departments which employ more employees than department "ADMINISTRATION" (use a subquery in a HAVING clause).

dept_name	num_of_emp	1
DISTRIBUTED SYSTEMS	 	 7
EXPERT SYSTEMS	1	3

8. Find the year in which the biggest number of professors were hired. Show also the number of professors hired in the year.

YEAR	NUMBER_OF_PROFESSORS
1968	1
	1
1973	1
1975	1
1977	1

9. Find the department (write its name and sum of salaries) which pays the biggest amount (sum of salaries) of money to its employees. Take into account also additional salaries.

DEPARTMENT		MAX_	SUM
DISTRIBUTED	SYSTEMS	18610	.70