



SURNAME:	NAME:	DNI:	GRADE:
COURSE: Databases	DATE: 14/03/17	GROUP:	

Midterm

Length: 1 hour 45 minutes

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### Exercise 3: [LO 1,2,4] 3 points

Given the following two tables:

emp_id	name	manager	salary	bonus	dep_id
1	Rodrigo	NULL	5000	1000	7
2	Abraham	Rodrigo	2500	0	11
3	Gabriel	Abraham	2000	500	9
4	Ana	Rodrigo	500	1000	11
5	Mariano	Gabriel	2000	NULL	13

Table 1: Employees

dep_id	name	location
7	Management	Pamplona
9	Electronics	Benalmádena
10	Marketing	Ciudad Real
11	Software	Pamplona

Table 2: Departments

Write down the SQL sentences that give the following results. **(0,5 points per sentence):**

- Shows how many employees earn less than the average salary.
- Shows the names and salaries of all employees that earn the same salary and work in the same department as their manager.
- Shows the names and city where for all managers of the employees that work in Marketing.
- Shows all cities with departments that have more than 1 employee.
- Creates a new data type named *ex\_date* from *date* that doesn't accept null values and only allows for dates later than January 1st 2016.
- Shows, for all departments, their name, the city they are based on and the minimum and average salary for the employees that work in that department. Show only those departments where the average salary of their employees is higher than 1500. On top of that, the results must be sorted by the department name.