CIFP Francesc de Borja Moll - ASIX Course: Database management

Unit: Introduction to SQL 2

Test

1.- [university] Find all departments where the total salary is greater than the average of the total salary at all departments.

+-		-+
	dept_name	1
+-		-+
	Comp. Sci.	
	Finance	
	Physics	
+-		-+

- 2.- [university] Delete all tuples in the instructor relation for those instructors associated with a department located in the Watson building.
- 3.- [university] Make each student in the Music department who has earned more than 144 credit hours an instructor in the Music department, with a salary of \$18,000
- 4.- [university] All instructors with salary over \$100,000 receive a 3 percent raise, whereas all others receive a 5 percent raise. Use a single update statement.
- 5.- [employees] Show the number employees of different occupations in each department.

+		+.		
	Department	  -	Occupation	Number_of_employees
+	ACCOUNTING ACCOUNTING RESEARCH RESEARCH SALES SALES SALES	+	EMPLOYEE MANAGER ANALYST EMPLOYEE MANAGER EMPLOYEE MANAGER SALESMAN	1   1   2   2   3   1   1   4
+		+		<u></u>

6.- [employees] Display the maximum number of employees of all the departments.

```
+----+
| max_number |
+----+
| 7 |
```

+----+

7.- [employees] Show the name and the average salary of the departments whose average salary is greater than the average of salaries of all employees.

8.- [northwind] Show total cost of every order in May 1998 (also called "subtotal"). Clue: price\*quantity\*(1-discount)

```
+----+
| OrderID | OrderDate
+----+
   11064 | 1998-05-01 00:00:00 | 9208.4850 |
   11065 | 1998-05-01 00:00:00 | 492.4920 |
   11066 | 1998-05-01 00:00:00 | 1811.0625 |
   11067 | 1998-05-04 00:00:00 | 169.3575 |
   11068 | 1998-05-04 00:00:00 | 4650.3600 |
   11069 | 1998-05-04 00:00:00 | 702.0000 |
   11070 | 1998-05-05 00:00:00 | 3653.3250 |
   11071 | 1998-05-05 00:00:00 | 994.5000 |
   11072 | 1998-05-05 00:00:00 | 10175.1000 |
   11073 | 1998-05-05 00:00:00 | 585.0000 |
   11074 | 1998-05-06 00:00:00 | 476.3850 |
   11075 | 1998-05-06 00:00:00 | 1142.7000 |
   11076 | 1998-05-06 00:00:00 | 2061.1500 |
   11077 | 1998-05-06 00:00:00 | 2417.4930 |
```

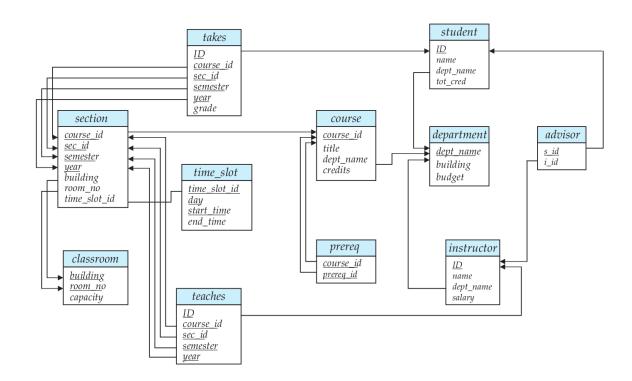
9.- [northwind] Show employee sales ordered by sales amount descendent.

ъ.		ㅗ.		+		++
	LastName		FirstName	EmployeeI[	D	
	Peacock	İ			4	487859.4435     415097.5140
İ	Davolio	İ	Nancy		1	393351.2700
	Fuller King	•		•		346611.0570     275527.1805
	Callahan Dodsworth	 	Laura Anne	'		258721.0860     161779.8000

+		-+		 +	+-	+
	Buchanan		Steven	5		147271.3125
	Suyama		Michael	6		152248.7850

10.- [northwind] Top 5 products with more units sold.

+	+-		+
ProductName		Units	•
+	+-		+
Camembert Pierrot		1577	
Raclette Courdavault		1496	
Gorgonzola Telino		1397	
Gnocchi di nonna Alice		1263	
Pavlova		1158	
+	+-		+



## **DEPARTMENTS:**

num	name	town_code
10	ACCOUNTING	SVQ
20	RESEARCH	MAD
30	SALES	BCN
40	PRODUCTION	BIO

## EMPLOYEES:

1	num	surname	name	manager	start_date	salary	commission	dept_num	occu_code
i	800	BANDERAS	ANTONIO	7839	1991-01-09	2885	NULL	20	MAN
İ	7369	SÁNCHEZ	SERGIO	7902	1990-12-17	1040	NULL	20	EMP
İ	7499	ARROYO	MARTA	7698	1990-02-20	1500	390	30	SAL
1	7521	SALA	RAUL	7698	1991-02-22	1625	650	30	SAL
1	7566	JIMÉNEZ	JUDIT	7839	1991-04-02	2900	NULL	20	MAN
1	7654	MARTÍN	MONICA	7698	1991-09-29	1600	1020	30	SAL
1	7698	NEGRO	BARTOLOME	7839	1991-05-01	3005	NULL	30	MAN
1	7782	CEREZO	ENRIQUE	7839	1991-06-09	2885	NULL	10	MAN
1	7788	GIL	JESUS	7566	1991-11-09	3000	NULL	20	ANA
1	7844	TOVAR	LUIS	7698	1991-09-08	1350	0	30	SAL
1	7876	ALONSO	FERNANDO	7788	1991-09-23	1430	NULL	20	EMP
1	7900	JIMENO	XAVIER	7698	1991-12-03	1335	NULL	30	EMP
1	7902	FERNÁNDEZ	ANA	7566	1991-12-03	3000	NULL	20	ANA
1	7934	MUÑOZ	ANTONIA	7782	1992-01-23	1690	NULL	10	EMP
1	8001	RUIZ	FERNANDA	7839	1992-06-10	2885	NULL	20	MAN

## OCCUPATIONS:

+	+
code	name
ANA EMP MAN PRE SAL	ANALYST   EMPLOYEE   MANAGER   PRESIDENT   SALESMAN

## TOWNS:

code	name	
BCN     BIO     MAD     SVQ	BARCELONA   BILBAO   MADRID   SEVILLA	

