TD 1

Here are the tables we used in class:

$course_id$	title	$dept_name$	credits	id	name	dept name	salary
BIO-101	Intro. to Biology	Biology	4	10101	Srinivasan	Comp. Sci.	65000.00
BIO-301	Genetics	Biology	4	12121	Wii	Finance	90000.00
BIO-399	Computational Biology	Biology	3	15151	Mozart	Music	40000.00
CS-101	Intro. to Computer Science	Comp. Sci.	4				
CS-190	Game Design	Comp. Sci.	4	22222	Einstein	Physics	95000.00
CS-315	Robotics	Comp. Sci.	3	32343	El Said	History	60000.00
CS-319	Image Processing	Comp. Sci.	3	33456	Gold	Physics	87000.00
CS-347	Database System Concepts	Comp. Sci.	3	45565	Katz	Comp. Sci.	75000.00
EE-181	Intro. to Digital Systems	Elec. Eng.	3	58583	Califieri	History	62000.00
FIN-201	Investment Banking	Finance	3	76543	Singh	Finance	80000.00
HIS-351	World History	History	3	76766	Crick	Biology	72000.00
MU-199	Music Video Production	Music	3	83821	Brandt	Comp. Sci.	92000.00
PHY-101	Physical Principles	Physics	1 1	98345	Kim	Elec. Eng.	80000.00

(a) course

(b) teacher

	id	name	$dept_name$	tot_cred
	00128	Zhang	Comp. Sci.	102
	12345	Shankar	Comp. Sci.	32
İ	19991	Brandt	History	80
	23121	Chavez	Finance	110
	44553	Peltier	Physics	56
İ	45678	Levy	Physics	46
	54321	Williams	Comp. Sci.	54
İ	55739	Sanchez	Music	38
	70557	Snow	Physics	0
	76543	Brown	Comp. Sci.	58
İ	76653	Aoi	Elec. Eng.	60
	98765	Bourikas	Elec. Eng.	98
	98988	Tanaka	Biology	120

$course_id$	sec_id	semester	year	building	rn	$time_id$
BIO-101	1	Summer	2009	Painter	514	В
BIO-301	1	Summer	2010	Painter	514	A
CS-101	1	Fall	2009	Packard	101	H
CS-101	1	Spring	2010	Packard	101	F
CS-190	1	Spring	2009	Taylor	3128	E
CS-190	2	Spring	2009	Taylor	3128	A
CS-315	1	Spring	2010	Watson	120	D
CS-319	1	Spring	2010	Watson	100	В
CS-319	2	Spring	2010	Taylor	3128	C
CS-347	1	Fall	2009	Taylor	3128	A
EE-181	1	Spring	2009	Taylor	3128	C
FIN-201	1	Spring	2010	Packard	101	В
HIS-351	1	Spring	2010	Painter	514	C
MU-199	1	Spring	2010	Packard	101	D
PHY-101	1	Fall	2009	Watson	100	A

(c) student

(d) section

id	$course_id$	sec_id	semester	year
10101	CS-101	1	Fall	2009
10101	CS-315	1	Spring	2010
10101	CS-347	1	Fall	2009
12121	FIN-201	1	Spring	2010
15151	MU-199	1	Spring	2010
22222	PHY-101	1	Fall	2009
32343	HIS-351	1	Spring	2010
45565	CS-101	1	Spring	2010
45565	CS-319	1	Spring	2010
76766	BIO-101	1	Summer	2009
76766	BIO-301	1	Summer	2010
83821	CS-190	1	Spring	2009
83821	CS-190	2	Spring	2009
83821	CS-319	2	Spring	2010
98345	EE-181	1	Spring	2009

(e)	teac	hes
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id	course id	sec id	semester	year	grade
00128	CS-101	1	Fall	2009	A
00128	CS-347	1	Fall	2009	A-
12345	CS-101	1	Fall	2009	C
12345	CS-190	2	Spring	2009	A
12345	CS-315	1	Spring	2010	A
12345	CS-347	1	Fall	2009	A
19991	HIS-351	1	Spring	2010	В
23121	FIN-201	1	Spring	2010	C+
44553	PHY-101	1	Fall	2009	B-
45678	CS-101	1	Fall	2009	F
45678	CS-101	1	Spring	2010	B+
45678	CS-319	1	Spring	2010	В
54321	CS-101	1	Fall	2009	A-
54321	CS-190	2	Spring	2009	B+
55739	MU-199	1	Spring	2010	A-
76543	CS-101	1	Fall	2009	A
76543	CS-319	2	Spring	2010	A
76653	EE-181	1	Spring	2009	C
98765	CS-101	1	Fall	2009	C-
98765	CS-315	1	Spring	2010	В
98988	BIO-101	1	Summer	2009	A
98988	BIO-301	1	Summer	2010	

(f) takes

$dept_name$	building	budget
Biology	Watson	90000.00
Comp. Sci.	Taylor	100000.00
Elec. Eng.	Taylor	85000.00
Finance	Painter	120000.00
History	Painter	50000.00
Music	Packard	80000.00
Physics	Watson	70000 00

(g) department

- 1. Find the titles of courses in Comp. Sci. department that have 3 credits.
- 2. Find the names of all instructors, along with their department names and department building name.
- 3. Find the names (without duplicates) of all students who have taken at least one Comp. Sci. course.
- 4. Find the names of all students who were taught by an instructor named Einstein; make sure there are no duplicates in the result.
- 5. Give the table that lists, for each student, the student name and the title, course id and section id of the courses that the student has taken.