## CSCI 330 Lab 2

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1. SELECT DISTINCT course.\* FROM course, section WHERE
 (section.year = 2010 AND section.semester = "Spring") OR
 (section.year = 2009 AND section.semester = "Fall") AND
 section.course\_id = course\_course\_id;

course_id	title	dept_name	credits
BIO-101	Intro. to Biology	Biology	4
BIO-301	Genetics	Biology	4
BIO-399	Computational Biology	Biology	3
CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-190	Game Design	Comp. Sci.	4
CS-315	Robotics	Comp. Sci.	3
CS - 319	Image Processing	Comp. Sci.	3
CS-347	Database System Concepts	Comp. Sci.	3
EE-181	Intro. to Digital Systems	Elec. Eng.	3
FIN-201	Investment Banking	Finance	3
${ m HIS}\!-\!351$	World History	History	3
MU-199	Music Video Production	Music	3
PHY-101	Physical Principles	Physics	4

2. SELECT name, salary FROM instructor
WHERE salary = (SELECT MAX(salary) FROM instructor);

name	/ salary	-
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3. SELECT department.dept\_name, AVG(salary) FROM department, instructor WHERE instructor.dept\_name = department.dept\_name GROUP BY (department.dept\_name) HAVING AVG(salary) > 42000;

dept_name	avg(salary)
Biology	72000.000000
Comp. Sci.	77333.333333
Elec. Eng.	80000.000000
Finance	85000.000000
History	61000.000000
Physics	91000.000000

 $4. \ \textbf{SELECT} \ \text{dept\_name} \ , \ \textbf{MAX} ( \, \text{salary} \, ) \ \textbf{FROM} \ \text{instructor} \ \textbf{GROUP} \ \textbf{BY} \ ( \, \text{dept\_name} \, );$ 

dept_name	MAX(salary)
Biology	72000.00
Comp. Sci.	92000.00
Elec. Eng.	80000.00
Finance	90000.00
History	62000.00
Music	40000.00
Physics	95000.00

5. SELECT DISTINCT name FROM student, takes

WHERE student.ID = takes.ID AND course\_id LIKE "CS-%";

+		-+
	name	-
+		-+
	Zhang	
	Shankar	
	Levy	
	Williams	
	Brown	
	Bourikas	
+		-+

6. SELECT course\_id , sec\_id , COUNT(\*) FROM takes

WHERE semester = "Spring" AND year = 2009 GROUP BY course\_id , sec\_id ;

course_id	sec_id	COUNT(*)
CS-190	2	2
EE-181	1	1

7. SELECT course\_id , sec\_id , COUNT(\*) FROM takes

WHERE semester = "Spring" AND year = 2009

GROUP BY course\_id , sec\_id ORDER BY COUNT(\*) DESC LIMIT 1;

course_id	sec_id	COUNT(*)	<i>+</i>
CS-190	2	2	

8. **DELETE FROM** course

WHERE course\_id NOT IN

(SELECT course\_id FROM section);

Query OK, 1 row affected (0.015 sec)