

# 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
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
Einstein	95000.00

3. **SELECT** dept\_name, budget **FROM** department **WHERE** budget > 42000;

dept_name	budget
Biology	90000.00
Comp. Sci.	100000.00
Elec. Eng.	85000.00
Finance	120000.00
History	50000.00
Music	80000.00
Physics	70000.00

4. **SELECT** dept\_name, **MAX**(salary) **FROM** instructor **GROUP BY** (dept\_name);

dept_name	<b>MAX</b> (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** sec\_id, **COUNT**(\*) **FROM** takes  
**WHERE** semester = "Spring" **AND** year = 2009 **GROUP BY** (sec\_id);

sec_id	<b>COUNT</b> (*)
1	1
2	2

7. **SELECT** sec\_id, **COUNT**(\*) **FROM** takes  
**WHERE** semester = "Spring" **AND** year = 2009  
**GROUP BY** (sec\_id) **ORDER BY** **COUNT**(\*) **DESC** **LIMIT** 1;

sec_id	<b>COUNT</b> (*)
2	2