

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** 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. **SELECT** dept_name, **MAX**(salary) **FROM** instructor **GROUP BY** (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(*)
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)