-- Find the set of all courses taught either in Fall 2009 or in Spring 2010, or both.--

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE (sem = 1 AND year = 2009) OR (sem = 2 AND year = 2010)

);

-- TYB10 --

-- Find the set of all courses taught in the Fall 2009 as well as in Spring 2010.--

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE (sem = 1 AND year = 2009)

) AND course\_id IN (

SELECT course\_id

FROM section

WHERE (sem = 2 AND year = 2010)

);

-- Find all courses taught in the Fall 2009 semester but not in the Spring 2010 semester.--

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE (sem = 1 AND year = 2009)

) AND course\_id NOT IN (

SELECT course\_id

FROM section

WHERE (sem = 2 AND year = 2010)

);

-- Find all the courses taught in the both the Fall 2009 and Spring 2010 semesters (Use set membership).

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE sem = 1 AND year = 2009

)

INTERSECT

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE sem = 2 AND year = 2010

);

-- Find all the courses taught in the Fall 2009 semester but not in the Spring 2010 semester (Use set membership).

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE sem = 1 AND year = 2009

)

EXCEPT

SELECT course\_id, title

FROM course

WHERE course\_id IN (

SELECT course\_id

FROM section

WHERE sem = 2 AND year = 2010

);

-- Find the names of all instructors whose salary is greater than at least one instructor in the Biology department.

SELECT DISTINCT I1.name

FROM instructor I1

WHERE I1.salary > ANY (

SELECT I2.salary

FROM instructor I2

WHERE I2.department\_name = 'Biology'

);

-- Find the names of all instructors that have a salary value greater than that of each instructor in the Biology department.

SELECT DISTINCT I1.name

FROM instructor I1

WHERE I1.salary > ALL (

SELECT I2.salary

FROM instructor I2

WHERE I2.department\_name = 'Biology'

);