6.2.1. Join Three or More Tables

a) Display the student ID, course number, and section number of enrolled students where

the instructor of the section lives in zip code 10025. Additionally, the course should not

have any prerequisites.

**SELECT c.course\_no, s.section\_no, e.student\_id**

**FROM course c, section s, instructor i, enrollment e**

**WHERE c.prerequisite IS NULL**

**AND c.course\_no = s.course\_no**

**AND s.instructor\_id = i.instructor\_id**

**AND i.zip = '10025'**

**AND s.section\_id = e.section\_id**

b) Produce the mailing addresses for instructors who taught sections starting in June 2003.

**SELECT i.first\_name || ' ' ||i.last\_name name,**

**i.street\_address, z.city || ', ' || z.state**

**|| ' ' || i.zip "City State Zip",**

**TO\_CHAR(s.start\_date\_time, 'MM/DD/YY') start\_dt,**

**section\_id sect**

**FROM instructor i, section s, zipcode z**

**WHERE i.instructor\_id = s.instructor\_id**

**AND i.zip = z.zip**

**AND s.start\_date\_time >=**

**TO\_DATE('01-JUN-2003','DD-MON-YYYY')**

**AND s.start\_date\_time <**

**TO\_DATE('01-JUL-2003','DD-MON-YYYY')**

c) List the student IDs of enrolled students living in Connecticut.

**SELECT student\_id**

**FROM student JOIN enrollment**

**USING (student\_id)**

**JOIN zipcode**

**USING (zip)**

**WHERE state = 'CT'**

6.2.2. Join with Multicolumn Join Criteria

a) Show all the grades student Fred Crocitto received for SECTION\_ID 86.

**SELECT s.first\_name|| ' '|| s.last\_name name,**

**e.section\_id, g.grade\_type\_code,**

**g.numeric\_grade grade**

**FROM student s JOIN enrollment e**

**ON (s.student\_id = e.student\_id)**

**JOIN grade g**

**ON (e.student\_id = g.student\_id**

**AND e.section\_id = g.section\_id)**

**WHERE s.last\_name = 'Crocitto'**

**AND s.first\_name ='Fred'**

**AND e.section\_id = 86**

b) List the final examination grades for all enrolled Connecticut students of course number

420. Note final examination does not mean final grade.

**SELECT e.student\_id, sec.course\_no, g.numeric\_grade**

**FROM student stud, zipcode z,**

**enrollment e, section sec, grade g**

**WHERE stud.zip = z.zip**

**AND z.state = 'CT'**

**AND stud.student\_id = e.student\_id**

**AND e.section\_id = sec.section\_id**

**AND e.section\_id = g.section\_id**

**AND e.student\_id = g.student\_id**

**AND sec.course\_no = 420**

**AND g.grade\_type\_code = 'FI'**

c) Display the LAST\_NAME, STUDENT\_ID, PERCENT\_OF\_FINAL\_GRADE,

GRADE\_TYPE\_CODE, and NUMERIC\_GRADE columns for students who received 80 or

less for their class project (GRADE\_TYPE\_CODE = 'PJ'). Order the result by student last

name.

**SELECT g.student\_id, g.section\_id,**

**gw.percent\_of\_final\_grade pct, g.grade\_type\_code,**

**g.numeric\_grade grade, s.last\_name**

**FROM grade\_type\_weight gw, grade g,**

**enrollment e, student s**

**WHERE g.grade\_type\_code = 'PJ'**

**AND gw.grade\_type\_code = g.grade\_type\_code**

**AND gw.section\_id = g.section\_id**

**AND g.numeric\_grade <= 80**

**AND g.section\_id = e.section\_id**

**AND g.student\_id = e.student\_id**

**AND e.student\_id = s.student\_id**

**ORDER BY s.last\_name**