# Tercera etapa

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Chapter 7

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rem [Rischert, 2004,358]

SELECT last\_name, first\_name

FROM student

WHERE last\_name = 'Crocitto'

AND first\_name = 'Fred';

rem [Rischert, 2004,376]

SELECT first\_name, last\_name

FROM student

WHERE registration\_date =

(SELECT MIN(registration\_date)

FROM student);

rem [Rischert, 2004,376]

SELECT c.description, s.section\_no, c.cost, s.capacity

FROM course c, section s

WHERE c.course\_no = s.course\_no

AND s.capacity <=

(SELECT AVG(capacity)

FROM section)

AND c.cost =

(SELECT MIN(cost)

FROM course);

rem [Rischert, 2004,377]

SELECT course\_no, SUM(capacity)

FROM section

GROUP BY course\_no

HAVING SUM(capacity) <

(SELECT AVG(capacity)

FROM section);

rem [Rischert, 2004,377]

SELECT course\_no, SUM(capacity)

FROM section

GROUP BY course\_no;

rem [Rischert, 2004,377]

SELECT AVG(capacity)

FROM section;

rem [Rischert, 2004,377]

SELECT student\_id, COUNT(\*)

FROM enrollment

GROUP BY student\_id

HAVING COUNT(\*) =

(SELECT MAX(COUNT(\*))

FROM enrollment

GROUP BY student\_id);

rem [Rischert, 2004,378]

SELECT COUNT(\*)

FROM enrollment

GROUP BY student\_id;

rem [Rischert, 2004,379]

SELECT course\_no, description

FROM course

WHERE course\_no IN

(SELECT course\_no

FROM section

WHERE instructor\_id IN

(SELECT instructor\_id

FROM instructor

WHERE last\_name = 'Hanks'

AND first\_name = 'Fernand'));

rem [Rischert, 2004,380]

SELECT c.course\_no, c.description

FROM course c, section s, instructor i

WHERE c.course\_no = s.course\_no

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

AND i.last\_name = 'Hanks'

AND i.first\_name = 'Fernand';

rem [Rischert, 2004,381]

SELECT section\_id, capacity

FROM section

WHERE (section\_id, capacity) IN

(SELECT section\_id, COUNT(\*)

FROM enrollment

GROUP BY section\_id);

rem [Rischert, 2004,386]

SELECT instructor\_id, last\_name, first\_name, zip

FROM instructor i

WHERE EXISTS

(SELECT 'X'

FROM section

WHERE i.instructor\_id = instructor\_id);

rem [Rischert, 2004,386]

SELECT instructor\_id, last\_name, first\_name, zip

FROM instructor

WHERE instructor\_id IN

(SELECT instructor\_id

FROM section);

rem [Rischert, 2004,388]

SELECT section\_id, capacity

FROM section

WHERE course\_no = 20;

rem [Rischert, 2004,391]

SELECT section\_id, course\_no

FROM section s

WHERE 2 >

(SELECT COUNT(\*)

FROM enrollment

WHERE section\_id = s.section\_id);

rem [Rischert, 2004,393]

SELECT section\_id

FROM section

WHERE section\_id NOT IN

(SELECT section\_id

FROM enrollment);

rem [Rischert, 2004,397]

SELECT course\_no, section\_id

FROM section s

WHERE NOT EXISTS

(SELECT NULL

FROM enrollment

WHERE s.section\_id = section\_id)

ORDER BY course\_no;

rem [Rischert, 2004,417]

SELECT student\_id, section\_id, numeric\_grade

FROM grade g

WHERE grade\_type\_code = 'FI'

AND numeric\_grade > ALL

(SELECT numeric\_grade

FROM grade

WHERE grade\_type\_code = 'HM'

AND g.section\_id = section\_id

AND g.student\_id = student\_id);

rem [Rischert, 2004,418]

SELECT student\_id, section\_id, grade\_type\_code,

MAX(numeric\_grade) max, MIN(numeric\_grade) min

FROM grade

WHERE student\_id = 179

AND section\_id = 116

AND grade\_type\_code IN ('HM', 'FI')

GROUP BY student\_id, section\_id, grade\_type\_code;

rem [Rischert, 2004,420]

SELECT student\_id, section\_id, grade\_type\_code,

numeric\_grade

FROM grade

WHERE student\_id = 102

AND section\_id = 89

AND grade\_type\_code IN ('HM', 'FI');

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Chapter 8

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rem [Rischert, 2004,425]

SELECT first\_name, last\_name, phone, COUNT(\*)

FROM student

GROUP BY first\_name, last\_name, phone

HAVING COUNT(\*) > 1;

rem [Rischert, 2004,426]

SELECT instructor\_id id, first\_name, last\_name, phone

FROM instructor

UNION

SELECT student\_id, first\_name, last\_name, phone

FROM student

ORDER BY 3;

rem [Rischert, 2004,427]

SELECT first\_name, last\_name,

'Instructor' "Type"

FROM instructor

UNION

SELECT first\_name, last\_name,

'Student'

FROM student;

rem [Rischert, 2004,429]

SELECT first\_name, last\_name,

'Instructor' "Type"

FROM instructor

UNION

SELECT first\_name, last\_name,

'Student'

FROM student;

rem [Rischert, 2004,430]

SELECT created\_by

FROM enrollment

UNION

SELECT created\_by

FROM grade

UNION

SELECT created\_by

FROM grade\_type

UNION

SELECT created\_by

FROM grade\_conversion;

rem [Rischert, 2004,432]

SELECT DISTINCT salutation, CAST(NULL AS NUMBER),

state, z.created\_date

FROM instructor i, zipcode z

WHERE i.zip = z.zip

UNION ALL

SELECT salutation, COUNT(\*),

state, TO\_DATE(NULL)

FROM student s, zipcode z

WHERE s.zip = z.zip

GROUP BY salutation, state;

rem [Rischert, 2004,440]

SELECT course\_no, description

FROM course

MINUS

SELECT s.course\_no, c.description

FROM section s, course c

WHERE s.course\_no = c.course\_no;

rem [Rischert, 2004,441]

SELECT course\_no, description

FROM course c

WHERE NOT EXISTS

(SELECT '\*'

FROM section

WHERE c.course\_no = course\_no);

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Chapter 9

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rem [Rischert, 2004,442]

SELECT zip

FROM instructor

INTERSECT

SELECT zip

FROM student;

rem [Rischert, 2004,447]

SELECT course\_no, description,

section\_id

FROM course JOIN section

USING (course\_no)

ORDER BY course\_no;

rem [Rischert, 2004,448]

SELECT c.course\_no, c.description,

s.section\_id, s.course\_no

FROM course c LEFT OUTER JOIN section s

ON c.course\_no = s.course\_no

ORDER BY c.course\_no;

rem [Rischert, 2004,452]

SELECT col1, col2

FROM t1, t2

WHERE t1.col1 = t2.col2(+)

UNION

SELECT col1, col2

FROM t1, t2

WHERE t1.col1(+) = t2.col2;

rem [Rischert, 2004,453]

SELECT c.course\_no, s.course\_no, s.section\_id,

c.description, s.start\_date\_time

FROM course c, section s

WHERE c.course\_no(+) = s.course\_no(+);

rem [Rischert, 2004,455]

SELECT c.course\_no, s.course\_no, s.section\_id,

c.description, s.start\_date\_time

FROM course c FULL OUTER JOIN section s

ON c.course\_no = s.course\_no;

rem [Rischert, 2004,456]

SELECT course\_no, description

FROM course

WHERE prerequisite = 350;

rem [Rischert, 2004,457]

SELECT course\_no cno,

description,

prerequisite prereq,

location loc, section\_id

FROM course LEFT OUTER JOIN section

USING (course\_no)

WHERE prerequisite = 350;

rem [Rischert, 2004,460]

SELECT c.course\_no cno, s.course\_no sno,

c.description,

c.prerequisite prereq,

s.location loc, s.section\_id

FROM (SELECT \*

FROM course

WHERE prerequisite = 350) c LEFT OUTER JOIN

(SELECT \* FROM section

WHERE location = 'L507') s

ON (c.course\_no = s.course\_no);

rem [Rischert, 2004,461]

SELECT c.course\_no, c.description

FROM course c, section s

WHERE c.course\_no = s.course\_no(+)

AND s.course\_no IS NULL;

rem [Rischert, 2004,462]

SELECT city, state, zip,

(SELECT COUNT(\*)

FROM student s

WHERE s.zip = z.zip) AS student\_count

FROM zipcode z

WHERE state = 'CT';

rem [Rischert, 2004,471]

SELECT student\_id, section\_id, numeric\_grade

FROM grade g

WHERE grade\_type\_code = 'FI'

AND section\_id = 86

AND numeric\_grade < ANY

(SELECT numeric\_grade

FROM grade

WHERE grade\_type\_code = 'MT'

AND g.section\_id = section\_id

AND g.student\_id = student\_id);

rem [Rischert, 2004,472]

SELECT DISTINCT a.student\_id, a.last\_name,

a.street\_address

FROM student a, student b

WHERE a.street\_address = b.street\_address

AND a.zip = b.zip

AND a.student\_id <> b.student\_id

ORDER BY a.street\_address;

rem [Rischert, 2004,474]

SELECT c1.course\_no,

SUBSTR(c1.description, 1,15) course\_descr,

C1.prerequisite,

SUBSTR(c2.description,1,15) pre\_req\_descr

FROM course c1, course c2

WHERE c1.prerequisite = c2.course\_no(+)

ORDER BY 1;