TERCERA ETAPA

Chapter 7

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);
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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
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(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'); Chapter 8 rem [Rischert, 2004,425] SELECT first_name, last_name, phone, COUNT(*) FROM student

GROUP BY first_name, last_name, phone

HAVING COUNT(*) > 1;

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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;
```

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, 2004,430]

SELECT created_by

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); Chapter 9 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
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ON c.course_no = s.course_no;
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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

rem [Rischert, 2004,474]

ORDER BY a.street_address;

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;