

CS2550 Fall 2013

SQL Assignment #9 - Expected Results

1. Create an alphabetic listing of all instructors and the number of sections that they have taught. The number of sections can be null for instructors that have not taught any sections.

| FIRST_NAME | LAST_NAME | SECTIONS |
|------------------|-----------|----------|
| ----- | ----- | ----- |
| Rick | Chow | |
| Marilyn | Frantzen | 10 |
| Fernand | Hanks | 9 |
| Charles | Lowry | 9 |
| Anita | Morris | 10 |
| Gary | Pertez | 10 |
| Nina | Schorin | 10 |
| Todd | Smythe | 10 |
| Irene | Willig | |
| Tom | Wojick | 10 |
| (10 Rows) | | |

2. List the course number of courses wherein students have received grades for every one of the defined grade types. Order by Course Number.

| COURSE_NO |
|-----------------|
| ----- |
| 20 |
| 25 |
| 100 |
| 120 |
| 122 |
| 125 |
| 130 |
| 135 |
| (8 Rows) |

3. List all of the zip codes in Flushing, NY and the number of students from each of the zip codes. Sort by zip code. Show 0 for zip codes with no students enrolled.

| ZIP | STUDENTS |
|-----------------|----------|
| ----- | ----- |
| 11354 | 0 |
| 11355 | 2 |
| 11358 | 1 |
| 11366 | 1 |
| (4 Rows) | |

4. List course number and description all of the Java courses and the total number of enrollments for each course. Arrange by course number. Show zero for courses with no students enrolled.

| COURSE_NO | DESCRIPTION | ENROLLMENTS |
|-----------|-------------------------------|-------------|
| 120 | Intro to Java Programming | 23 |
| 122 | Intermediate Java Programming | 24 |
| 124 | Advanced Java Programming | 8 |
| 125 | Java Developer I | 8 |
| 146 | Java for C/C++ Programmers | 3 |
| 350 | Java Developer II | 9 |
| 430 | Java Developer III | 0 |
| 450 | DB Programming with Java | 1 |

(8 Rows)

5. List student ID and Name of all of the students in area code 617 along with the number of enrollments each has. If the student has not enrolled in any courses, display the word "none" in the enrollments column.

Alphabetize the list on last name and first name..

| STUDENT_ID | FIRST_NAME | LAST_NAME | ENROLLMENTS |
|------------|------------|-----------|-------------|
| 253 | Walter | Boremman | 1 |
| 230 | George | Kocka | 1 |
| 278 | Thomas E. | La Blank | 2 |
| 396 | James E. | Norman | none |
| 108 | Judy | Sethi | 1 |

(5 Rows)

Extra Credit

(Alternative form of Query #2)

6. List the course number of courses wherein students have received grades for every one of the possible grade types offered in the course. Order by Course Number.

| COURSE_NO | POSSIBLE_GRADETYPES | ACTUAL_GRADETYPES |
|-----------|---------------------|-------------------|
| 124 | 6 | 5 |

(1 Row)