CS601-01/CS601-02: MySQL Tables for Quiz 9

Assume the following tables are in the database:

students

```
+----+---------------+----------+---------------+------+
| id | name          | username | graduationDate | GPA  |
+----+---------------+----------+---------------+------+
|  1 | Anita Karp    | akarp    | 05-30-2017    | 3.8  |
|  2 | Joshua Lee    | jlee2    | 05-30-2018    | 3.5  |
|  3 | Alice Chen    | achen    | 12-18-2018    | 3.7  |
|  4 | Bradon Montoya | bmont   | 12-18-2016    | 3.7  |
|  5 | Deepak Kumar  | dkuma    | 05-30-2019    | 3.9  |
|  6 | Xiaofeng Tan  | xitan    | 05-30-2019    | 3.9  |
+----+---------------+----------+---------------+------+
```

courses

```
+----+-------+------------------+-----------+
| id | name  | department       | instructor |
+----+-------+------------------+-----------+
|  1 | CS601 | Computer Science | Karpenko   |
|  2 | CS673 | Computer Science | Jung       |
|  3 | CS690 | Computer Science | Karpenko   |
|  4 | CS212 | Computer Science | Engle      |
|  5 | CS490 | Computer Science | Johnson    |
|  6 | CS112 | Computer Science | Rollins    |
|  7 | MA202 | Mathematics      | Pacheco    |
+----+-------+------------------+-----------+
```

enrollment

```
+----------+-----------+
| courseId | studentId |
+----------+-----------+
|        1 |         1 |
|        1 |         3 |
|        1 |         5 |
|        1 |         6 |
|        2 |         1 |
|        2 |         3 |
|        2 |         4 |
|        3 |         2 |
|        3 |         4 |
|        6 |         5 |
|        6 |         6 |
+----------+-----------+
```

Question 1: The expected result after executing the query in question 1:

```
+-------+
| name  |
+-------+
| CS601 |
| CS112 |
+-------+
```

Question 2: The expected result after executing the query in question 2:

```
+-------+----------------+
| name  | name           |
+-------+----------------+
| CS112 | Xiaofeng Tan   |
| CS112 | Deepak Kumar   |
| CS601 | Xiaofeng Tan   |
| CS601 | Alice Chen     |
| CS601 | Deepak Kumar   |
| CS601 | Anita Karp     |
| CS673 | Anita Karp     |
| CS673 | Bradon Montoya |
| CS673 | Alice Chen     |
| CS690 | Joshua Lee     |
| CS690 | Bradon Montoya |
+-------+----------------+
```

Question 3: In this question you are asked to guess what **numStudents** value will correspond to courses.name="MA202" if we execute the following query:

```
SELECT courses.name, count(enrollment.studentId) AS
numStudents
FROM courses LEFT OUTER JOIN enrollment
ON courses.id=enrollment.courseId
GROUP BY courses.name;
```