# user\_posts

| id | post   | post name user_s |                   |
|----|--------|------------------|-------------------|
| 1  | stuff! | Ellen            | Ellen's<br>deets  |
| 2  | stuff? | Steve            | Steve's<br>deets  |
| 3  | stuff  | Ellen            | Ellen's<br>deets  |
| 4  | stuff. | Ellen            | Ellen's<br>deets  |
| 5  | stuff  | Steve            | Steve's<br>deets  |
| 6  | Stuff  | Morgan           | Morgan's<br>deets |

#### **Posts**

|    |       |         |    | Users  |             |
|----|-------|---------|----|--------|-------------|
| id | post  | user_id | id | name   | other_stuff |
| 1  | stuff | 2       |    |        |             |
| 2  | stuff | 2       | 1  | Steve  | stuff       |
| 2  | ctuff |         | 2  | Ellen  | stuff       |
| 3  | stuff | 1       | 2  | Dilevi |             |
| 4  | stuff | 3       | 3  | Riley  | stuff       |
|    | ctuff | 1       | 4  | Morgan | stuff       |
| 5  | stuff | 4       |    |        |             |
| 6  | stuff | 3       |    |        |             |
| 7  | stuff | 2       |    |        |             |

### **Query Result**

| posts.id | post  | user_id | er_id users.id na |       | other_stuff |
|----------|-------|---------|-------------------|-------|-------------|
| 1        | stuff | 2       | 2                 | Ellen | stuff       |
| 2        | stuff | 2       | 2                 | Ellen | stuff       |
| 7        | stuff | 2       | 2                 | Ellen | stuff       |

# student\_courses

| id | course  | ı level   name |        | student_<br>deets |
|----|---------|----------------|--------|-------------------|
| 1  | math    | 101            | Riley  | Riley's<br>deets  |
| 2  | history | 104 Riley      |        | Riley's<br>deets  |
| 3  | math    | 101            | Steve  | Steve's<br>deets  |
| 4  | math    | 101            | Morgan | Morgan's<br>deets |
| 5  | history | 104            | Morgan | Morgan's<br>deets |
| 6  | science | 302 Riley      |        | Riley's<br>deets  |
| 7  | science | 302            | Steve  | Steve's<br>deets  |

#### courses

### students

| id | course  | level | id | name   | student_<br>deets | course_id |
|----|---------|-------|----|--------|-------------------|-----------|
| 1  | math    | 302   | 1  | Riley  | Riley's<br>deets  | 1         |
| 2  | science | 204   | 2  | Riley  | Riley's<br>deets  | 3         |
| 3  | history | 103   | 3  | Morgan | Morgan's<br>deets | 1         |
|    |         |       | 4  | Morgan | Morgan's<br>deets | 2         |
|    |         |       | 5  | Morgan | Morgan's<br>deets | 3         |

**Or...** 

## student\_courses

#### courses

| id | name       | level |
|----|------------|-------|
| 1  | math       | 101   |
| 2  | literature | 204   |
| 3  | history    | 302   |
| 4  | science    | 403   |

| id | course_id | student_id |   |
|----|-----------|------------|---|
| 1  | 3         | 1          | \ |
| 2  | 2         | 2          |   |
| 3  | 4         | 4          |   |
| 4  | 1         | 2          |   |
| 5  | 2         | 3          |   |
| 6  | 4         | 1          |   |
| 7  | 1         | 2          |   |
| 8  | 3         | 4          |   |
| 9  | 3         | 3          |   |

### students

|   | id | name   |
|---|----|--------|
| _ | 1  | Steve  |
|   | 2  | Ellen  |
| / | 3  | Riley  |
| _ | 4  | Morgan |

# **Query result**

| courses.id | courses.name | level | student_courses.id | course_id | student_id | students.id | students.name |
|------------|--------------|-------|--------------------|-----------|------------|-------------|---------------|
| 3          | history      | 302   | 1                  | 3         | 1          | 1           | Steve         |
| 3          | history      | 302   | 8                  | 3         | 4          | 4           | Morgan        |
| 3          | history      | 302   | 9                  | 3         | 3          | 3           | Riley         |