## Lab: outer joins

Write SQL to answer the following questions. Use the courses data (read the files courses-ddl.sql and courses-small.sql).

- 1. Perform a natural join on the student and takes tables. Examine the output.
- 2. Perform a natural left outer join on the student and takes tables. Compare the output to part 1 above.
- 3. Write an SQL query that gives the names of students who have not taken any classes. Hint: remember that to compare an attribute to 'null', you need 'is null', not '= null'.
- 4. Write an SQL query that gives the course\_id of courses have not been taught. (This is similar to part 3.)
- 5. Write an SQL query that gives the number of courses taken for every student in the student table.