9. PIG: Queries, Joins

You have two datasets: students and courses. The students dataset contains information about students and the courses they are enrolled in, while the courses dataset contains details about the courses offered by the university.

You need to join these datasets to analyze the enrollment status of students in different courses.

```
Task 1: Define Schema and Load Data
students_data = LOAD '...' USING PigStorage(',') AS (
    student_id: int,
    student_name: chararray,
    course_id: int
);
courses_data = LOAD '...' USING PigStorage(',') AS (
    course_id: int,
    course_name: chararray
```

);

Task 2: Perform an inner join between the students and courses data to find out which students are enrolled in which courses.

```
enrollment_details = JOIN students_data BY course_id,
courses_data BY course_id;
```

Task 3: Perform a left join to include all students, even if they are not enrolled in any courses.

```
all_students_with_courses = JOIN students_data BY course_id

LEFT OUTER,

courses_data BY course_id;
```

Task 4: Perform a right join to include all courses, even if no students are enrolled in them.

```
all_courses_with_students = JOIN students_data BY course_id

RIGHT OUTER,

courses_data BY course_id;
```