Текстовый формат

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class Teacher:
  def init (self, id, name):
  self.id = id
  self.name = name
  class EducationalCourse:
  def init (self, id, name):
  self.id = id
  self.name = name
  self.teachers = []
  # Creating instances of teachers and educational courses
  teacher1 = Teacher(1, "Teacher A")
  teacher2 = Teacher(2, "Teacher B")
  teacher3 = Teacher(3, "Teacher C")
  course1 = EducationalCourse(101, "Course X")
  course2 = EducationalCourse(102, "Course Y")
  course3 = EducationalCourse(103, "Course Z")
  # Associating teachers with educational courses
  course1.teachers = [teacher1, teacher2]
  course2.teachers = [teacher2, teacher3]
  course3.teachers = [teacher1, teacher3]
  # Query 1: List of all teachers and educational courses sorted by courses
  teacher course pairs = [(teacher.name, course.name) for course in[course1, course2, course3] for teacher in
course.teachers]
  teacher course pairs.sort(key = lambda pair : pair[1])
  # Query 2: List of educational courses with the total number of teachers in each course
  course teacher counts = [(course.name, len(course.teachers)) for course in[course1, course2, course3]]
  course teacher counts.sort(key = lambda pair : pair[1], reverse = True)
  # Print the results
  print("Query 1: List of all teachers and educational courses sorted by courses:")
  for pair in teacher course pairs:
print(f"Teacher: {pair[0]}, Course: {pair[1]}")
print("\nQuery 2: List of educational courses with the total number of teachers in each course:")
for pair in course teacher counts:
print(f"Course: {pair[0]}, Total Teachers: {pair[1]}")
```