**Data Analytics - Puzzle**

Given a dataset containing information about student performance in a class. The dataset includes attributes such as student ID, exam scores, homework scores, attendance records, and demographic information. Your task is to perform the following analyses:

1. Calculate the average exam score for each gender and compare them.

2. Identify any correlation between homework scores and final exam scores.

3. Determine if there's any relationship between attendance and overall performance.

4. Analyze if there are any significant differences in performance based on different demographic factors (e.g., ethnicity, socioeconomic status).