

















Figure 9: Characterization of subclusters of Cluster 2-4.

e.g., by means of geographical location, culture, stage of development, and dimensions according to the Hofstede Model, can be found by clustering PISA scale indices but the actual country stereotypes exist only to a very marginal extent. However, in a further work the rules how to find relevant clusters could be improved and more variables than the 15 scale indices utilized here could be included to the algorithm. The PISA scale indices are linked to math performance and in every country there are higher and lower performing students who share similar overall characteristics. Nevertheless, we think that the overall results presented here show a very promising behavior already, and we expect that the resulting clusters of our algorithm could be explained even clearer by the country of the students if additional information such as the students' temperament would be available for the clustering algorithm.

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