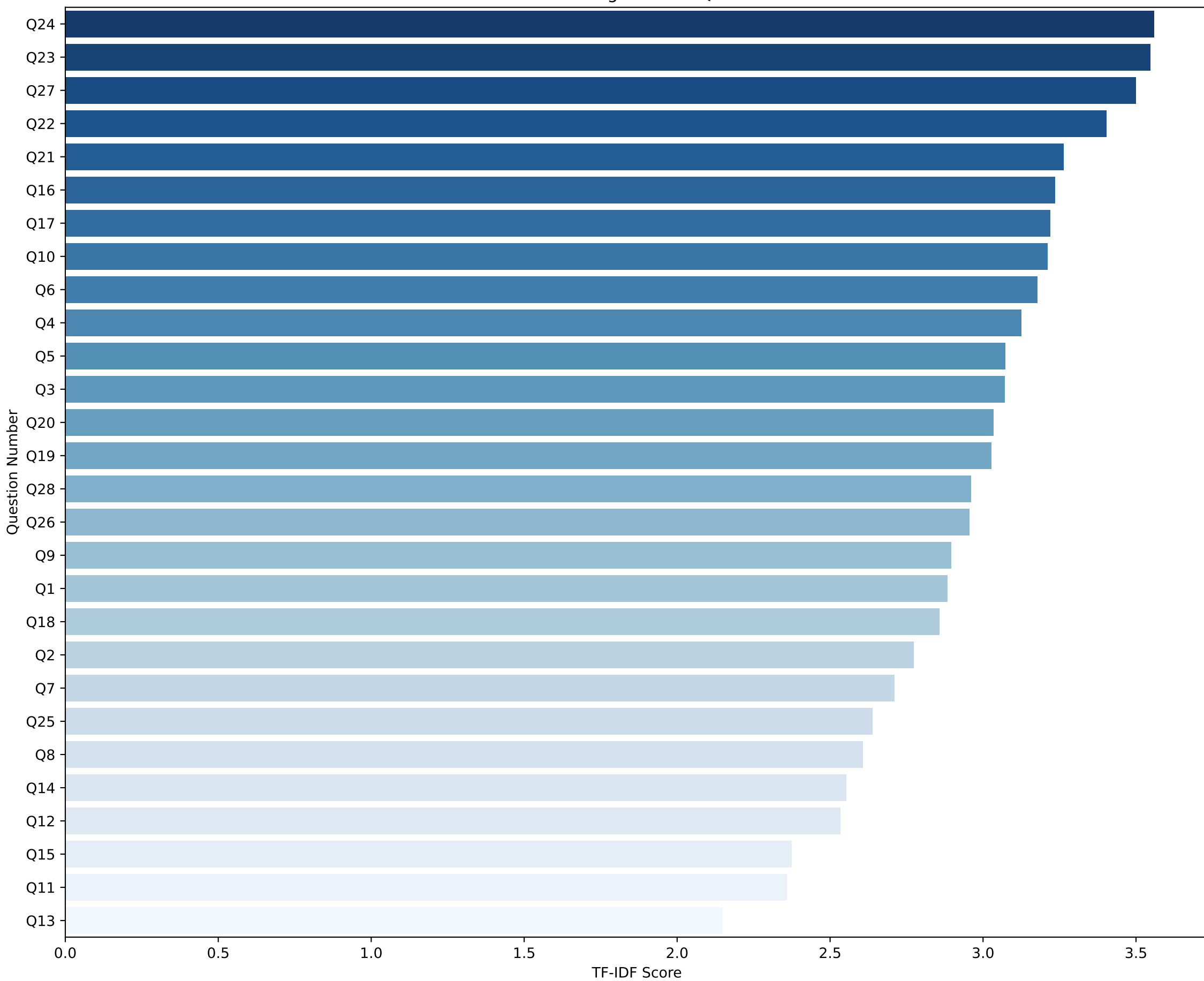


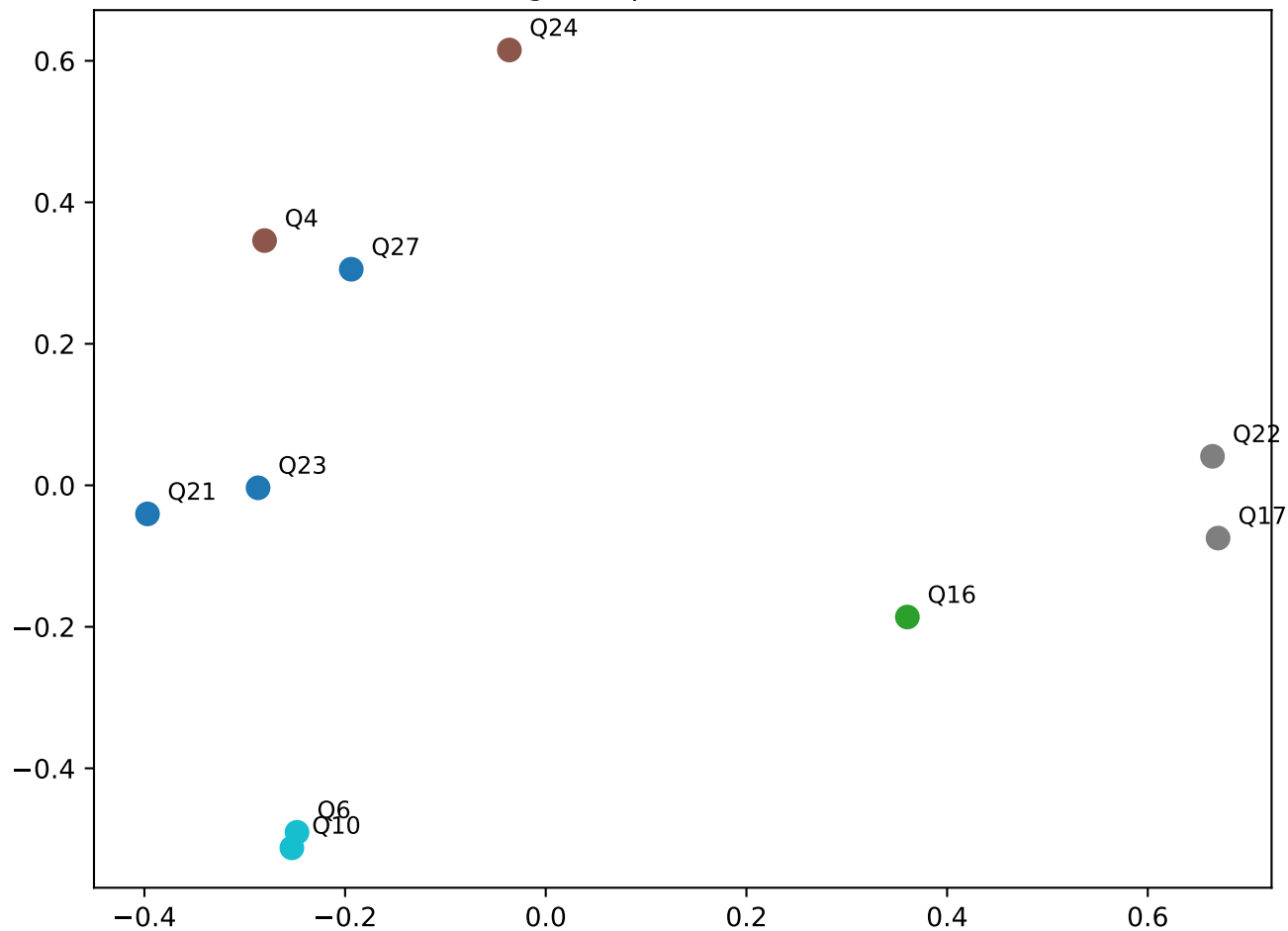
## === TF-IDF Ranking of All 27 Questions ===

Q\_No Question TF-IDF Score Q24 If your emotions were a weather report today, what would it be and why? 3.558664 Q23 Do you often feel empty, hopeless, or disconnected from others? Explain if you'd like. 3.545772 Q27 What kind of support would make you feel safer or more supported emotionally? 3.499875 Q22 How have your emotions been over the past two weeks? Please describe. 3.403432 Q21 What do you usually think about when you feel sad or overwhelmed? 3.263040 Q16 Rate your motivation to get out of bed in the morning. 3.234762 Q17 Rate how lonely you've felt in the past two weeks. 3.219455 Q10 Do you experience trouble sleeping or eating due to emotional stress? 3.210409 Q6 Do you feel comfortable talking to someone about your emotional struggles? 3.176767 Q4 Do you ever think people would be better off without you? 3.125438 Q5 Have you been isolating yourself from friends or family lately? 3.071986 Q3 Have you ever seriously considered suicide in the past year? 3.069818 Q20 Rate how much support you feel from your friends/family. 3.033380 Q19 Rate how safe you feel expressing your emotions to others. 3.025924 Q28 What keeps you going on difficult days? What gives you hope? 2.959442 Q26 What do you usually do when you're feeling emotionally low? 2.955079 Q9 Have you recently had trouble focusing or staying motivated? 2.896212 Q1 Have you ever had thoughts about ending your life? 2.883147 Q18 Rate how often you feel overwhelmed by your responsibilities. 2.857268 Q2 Do you feel like you're a burden to others? 2.772939 Q7 Have you ever spoken to a counselor or therapist? 2.709793 Q25 Finish this sentence: 'Lately, I've been feeling...' 2.638387 Q8 Have you stopped doing things you once enjoyed? 2.607390 Q14 Rate your ability to enjoy daily activities. 2.552156 Q12 Rate how often you feel emotionally exhausted. 2.532627 Q15 Rate your current level of stress. 2.374804 Q11 Rate how often you feel hopeless. 2.358384 Q13 Rate your recent sleep quality. 2.148702

TF-IDF Ranking of All 27 Questions



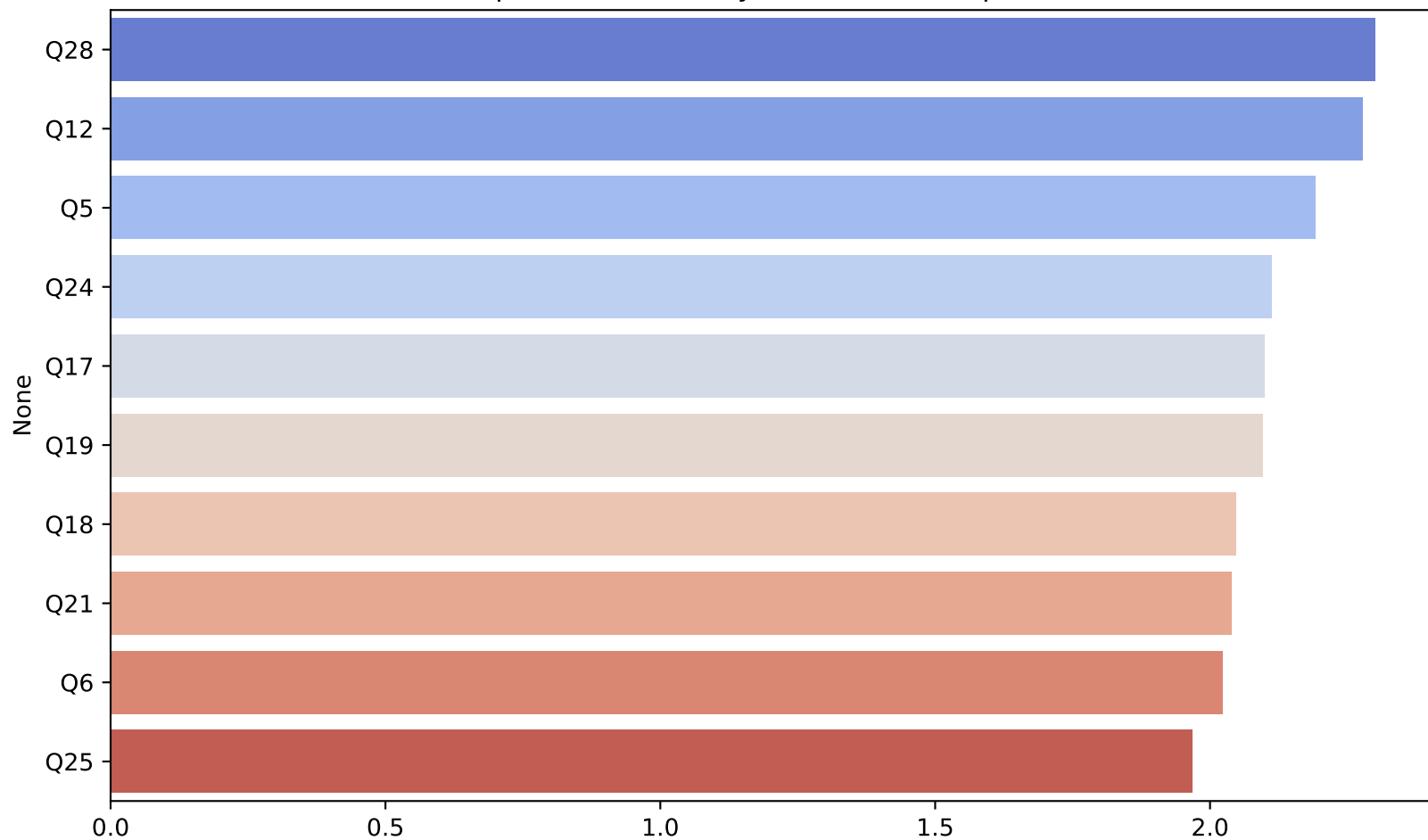
KMeans Clustering of Top 10 Questions (PCA Reduced)



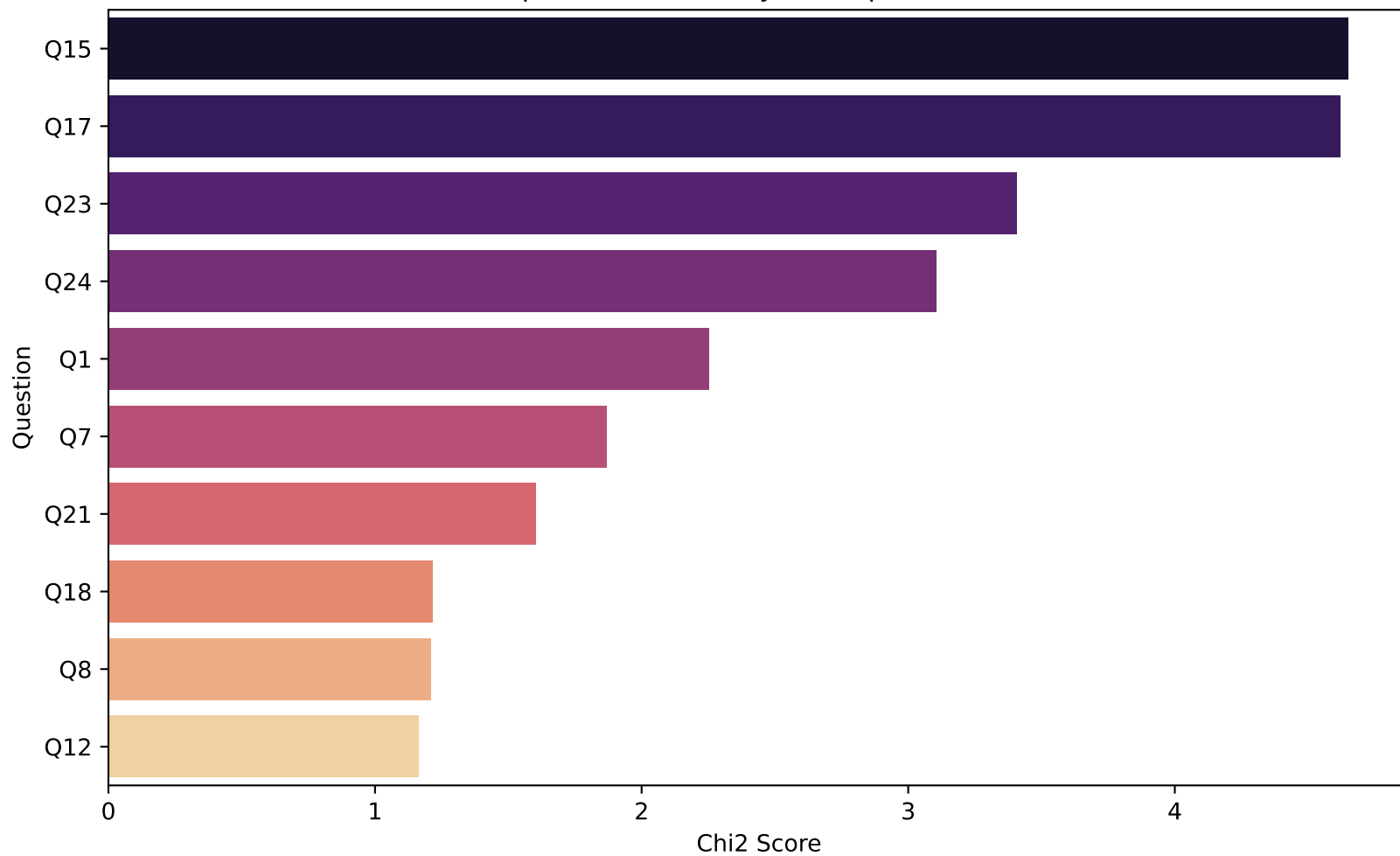
A 28x28 heatmap visualization of the MNIST dataset. The x and y axes are both labeled with indices from 0 to 27. The color scale on the right ranges from 0.0 (dark purple) to 1.0 (yellow). The heatmap shows a clear diagonal pattern of high values (yellow/green) from the top-left to the bottom-right, indicating that the most similar images are those that are most alike. There are also several clusters of high values, particularly in the top-left and bottom-right corners, suggesting groups of similar digits.



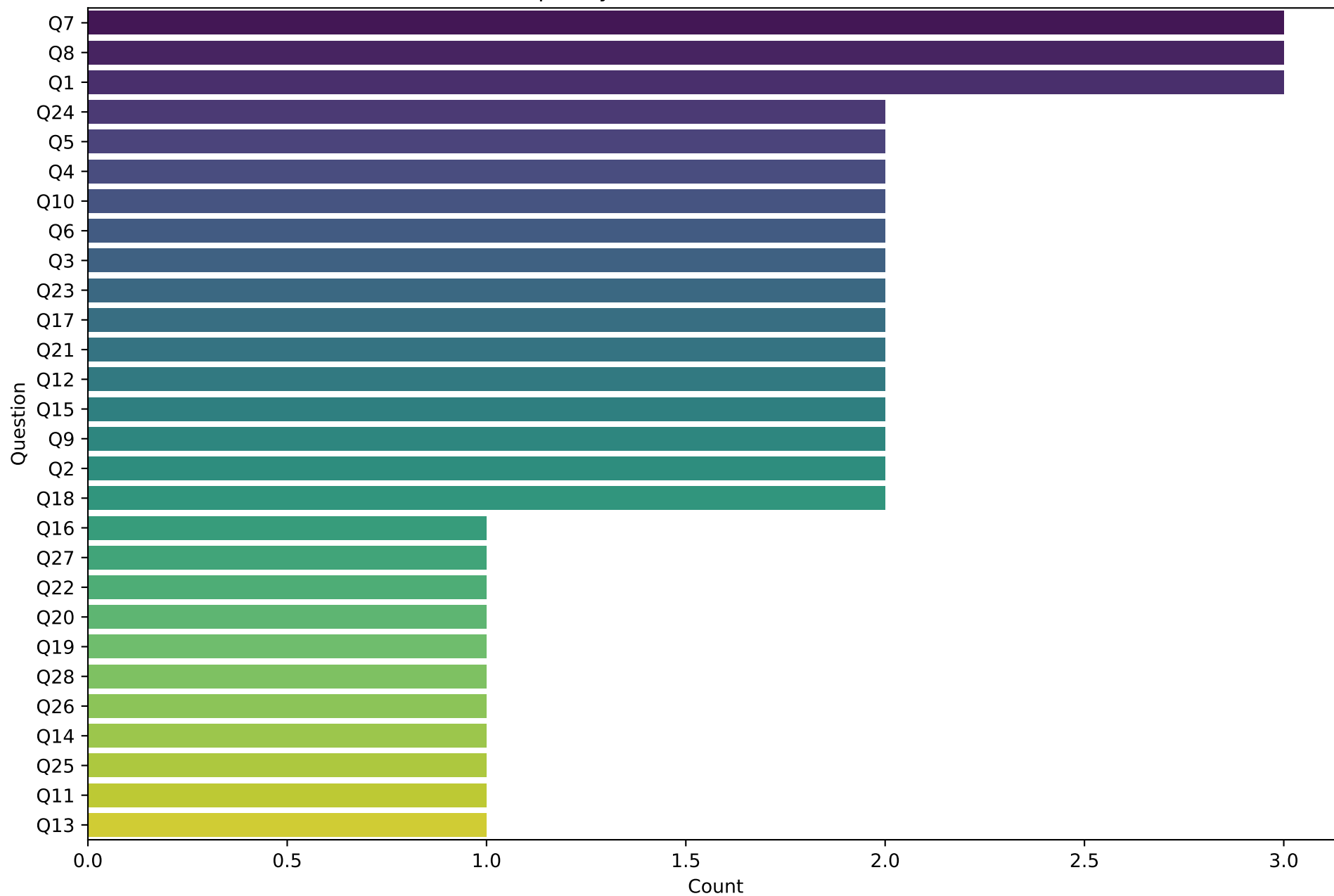
Top 10 Questions by Variance in Responses



Top 10 Questions by Chi-Square Score



Frequency of Selection Across Methods



Bubble Chart: Frequency of Questions Across Methods

