$$sim_{cos}(d_j, q) = \frac{(d_j|q)}{\|d_j\|\|q\|} = \frac{\sum_{i=1}^{n} w_{ij} q_i}{\sqrt{(\sum_{i=1}^{n} w_{ij}^2)(\sum_{i=1}^{n} q_i^2)}}$$