

DQ score of DQueen

Quality Score of Initial DQ concept

$$QS = 1.0 - \frac{\sum_{i=1}^n (\frac{IN_i}{T_i} \times W_i + \dots + \frac{IN_n}{T_n} \times W_i)}{1.0}$$

T_i	Total row number of table
IN_i	Index of DQ issue (initial In value = 1)
W_i	Weight value (Sum of Weight is 1.0)

Data quality score of table

$$QS = 1.0 - \frac{\sum_{i=1}^n \left(\frac{(\sum_{IN=C}^{IN=ap} IN_c + \dots + IN_{ap})}{T_i} \times W_i + \dots + \frac{(\sum_{IN=C}^{IN=ap} IN_c + \dots + IN_{ap})}{T_n} \times W_i \right)}{1.0}$$

T_i	Total row number of table
W_i	Weight value (Sum of Weight is 1.0)

IN_c	Issue index of Completeness (fix value = 0.5)
IN_{cv}	Issue index of Completeness (fix value = 0.1)
IN_{cr}	Issue index of Conformance - relation (fix value = 0.1)
IN_{ac}	Issue index of Accuracy (fix value = 0.1)
IN_u	Issue index of Plausibility - Uniqueness (fix value = 0.1)
IN_{ap}	Issue index of Plausibility - Atemporal (fix value = 0.1)