Update 중

Data Quality Score matrix

Table score

- Data Quality Score
 - Qi = Data quality issues identified for a column
 - Ti = Total row number
 - Ci = Number of columns in table
 - Pn = if the column required Y then have weight. The weight is propotion of completeness

$$QS = \frac{\left(1 - \sum_{i=1}^{n} \frac{Qi}{Ti}\right) * \left(1 - \sum_{i=1}^{n} \frac{Pi}{Ti}\right)}{N}$$

예시)

Data Quality Score

Table 1. Data quality score with rules calculation

Column 1*	Column 1 quality dimensions	Column 2	Column 2 quality dimensions	Column 3	Column 3 quality dimensions
555-123-4567		17 King Way		555-123-4567	Duplicate value
555-456-1234		22 B Street		555-123-4568	
<u>4567</u>	Rule violation	45 H Lane		555-123-4569	
555-0236- 8565		6 Villa Drive		555-123-4520	
555-236-8596		4 Parker Road		<u>555-123-4567</u>	Duplicate value
555-897-5632		<u>NULL</u>	Missing value	555-123-4530	
Renee	• Suspect value • Rule violation	<u>NULL</u>	Missing value	<u>NULL</u>	Missing value
NULL	Missing value Rule violation		Missing value	555-123-4545	
555-897-8523		555-123-4567	Suspect value	NULL	Mission value
3	Rule violation	<u>09876</u>	Suspect value	555-123-4555	

- Column 1:4/10 data quality issues identified for a column quality score of 60 percent.
- Column 2: 5/10 data quality issues identified for a column quality score of 50 percent.
- Column 3: 4/10 data quality issues identified for a column quality score of 60 percent.
- Data set quality score: (60+50+60) / 3 = 57 percent.
 - Column 1: 4/10 data quality issues identified for a column score of 60%
 - Column 2: 5/10 data quality issues identified for a column score of 50% and Penalty value 3/10
 - Column 3: 4/10 data quality issues identified for a column score of 60%
 - Data set quality score: (1 4/10) + ((1 3/10)*(2/10)) + (1 4/10) / 3 = 0.45