

HCES 2023-24

DATA QUALITY REPORT

DATA IS EMPTY

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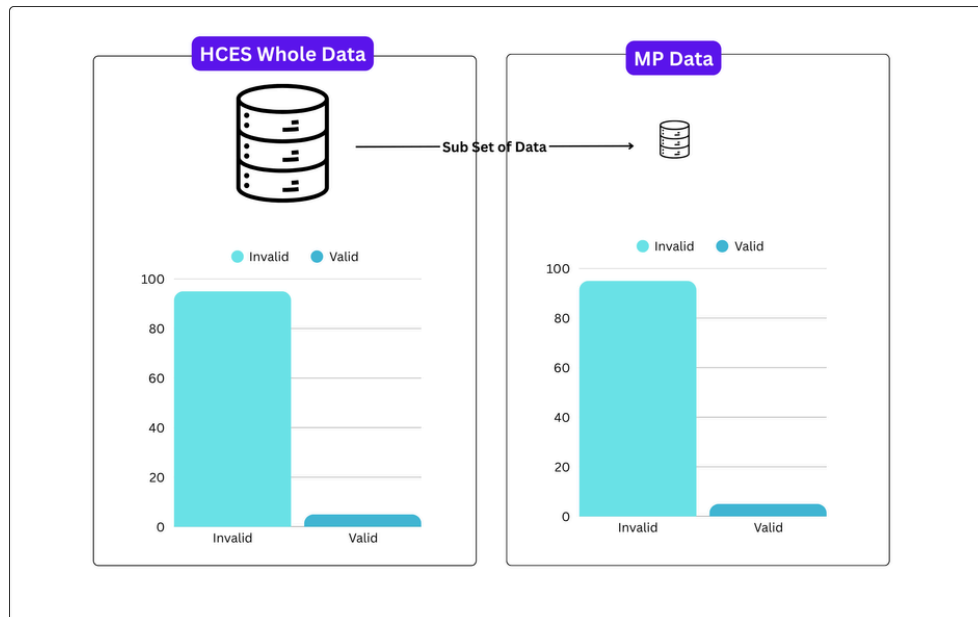
Position: Data Scientist Intern

Organisation: SBC Labs

Guidance: Anushka Ashok, Alok Gangaramany



PREREQUIRES



FORMULA

$$\text{Official Valid record} = \frac{\text{Valid}}{\text{Total}} \times 100 \%$$

$$\text{Official Invalid record} = \frac{\text{Invalid}}{\text{Total}} \times 100$$

TOOLS :

Pandas

FILE FORMAT:

Parquet

GITHUB ISSUE:

<https://github.com/Rudra-G-23/rural-financial-inclusion-govt-scheme-recommendation/issues/1>

NOTEBOOK LINK:

<https://github.com/Rudra-G-23/rural-financial-inclusion-govt-scheme-recommendation/blob/main/parquet-data/lev-07/notebooks/lev-07-04-check-null-value.ipynb>

VIDEO LINK:

<https://youtu.be/OcsfaVL5mhA>

Comparison with original and MP data for level 07

===== Total_other_items =====

According to the official data

Total Official Recoded : 261953

Official Invalid record: 13429 --> 94.87%

Official Valid record: 248524 --> 5.13%

For our MP Data

Our MP dataset contains total record: 28210

Null Value in MP data: 27136

Null value Percentage in this MP data 96.19%

=====

Total_other_items

Total no. of free other items received

^

Total no. of free other items received (Total_other_items)

Data file: [LEVEL - 07 \(Section 4.2\)](#)

Overview

Valid: 13429

Invalid: 248524

Minimum: 1

Maximum: 50

Mean: 2.885

Standard deviation: 2.952

Type: Continuous

Decimal: 0

Width: 3

Range: 1 - 50

Format: Numeric

Comparison with original and MP data for level 07

===== Num_fee_waiver_received =====

According to the official data
Total Official Recoded : 261953
Official Invalid record: 16578 --> 93.67%
Official Valid record: 245375 --> 6.33%

For our MP Data
Our MP dataset contains total record: 28210
Null Value in MP data: 25646
Null value Percentage in this MP data 90.91%

=====

Num_fee_waiver_
received

If Code 1 in Q4.2.6 Number of member received
reimbursement/waiver ?

If Code 1 in Q4.2.6 Number of member received reimbursement/waiver ?
(Num_fee_waiver_received)

Data file: [LEVEL - 07 \(Section 4.2\)](#)

Overview

Valid: 16578
Invalid: 245375

Type: Discrete
Decimal: 0
Width: 2
Range: 1 - 9
Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1		8990	<div></div> 54.2%
2		5577	<div></div> 33.6%
3		1556	<div></div> 9.4%

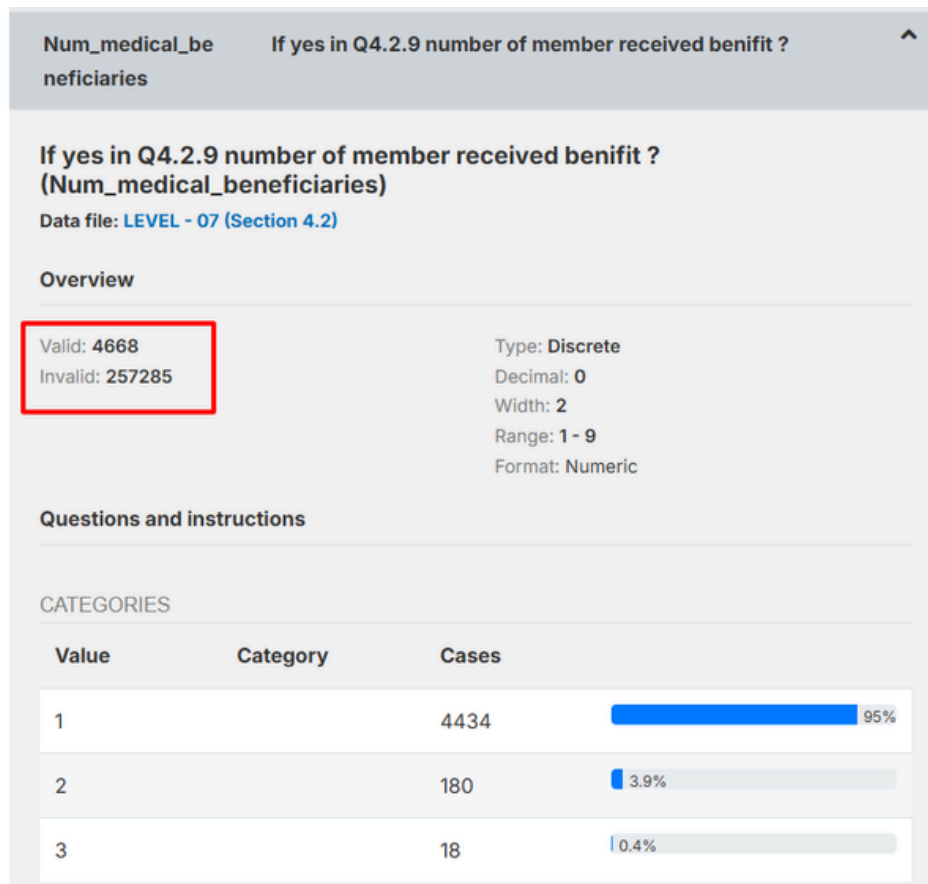
Comparison with original and MP data for level 07

===== Num_medical_beneficiaries =====

According to the official data
Total Official Recoded : 261953
Official Invalid record: 4668 --> 98.22%
Official Valid record: 257285 --> 1.78%

For our MP Data
Our MP dataset contains total record: 28210
Null Value in MP data: 27782
Null value Percentage in this MP data 98.48%

=====



Comparison with original and MP data for level 07

===== Medical_benefit_amount =====

According to the official data
Total Official Recoded : 261953
Official Invalid record: 4668 --> 98.22%
Official Valid record: 257285 --> 1.78%

For our MP Data
Our MP dataset contains total record: 28210
Null Value in MP data: 27782
Null value Percentage in this MP data 98.48%

=====

Medical_benefit_
amount

If yes in Q4.2.9 Amount ?

^

If yes in Q4.2.9 Amount ? (Medical_benefit_amount)

Data file: [LEVEL - 07 \(Section 4.2\)](#)

Overview

Valid: 4668

Invalid: 257285

Minimum: 0

Maximum: 1000000

Mean: 28576.168

Standard deviation: 54939.066

Type: Continuous

Decimal: 0

Width: 8

Range: 0 - 1000000

Format: Numeric

Comparison with original and MP data for level 07

===== Online_purchase_education =====

According to the official data
Total Official Recoded : 261953
Official Invalid record: 4600 --> 98.24%
Official Valid record: 257353 --> 1.76%

For our MP Data
Our MP dataset contains total record: 28210
Null Value in MP data: 27894
Null value Percentage in this MP data 98.88%

=====

Online_purchase_education

Whether any online purchase/payment has been made during the reference period to buy - Education ^

Whether any online purchase/payment has been made during the reference period to buy - Education (Online_purchase_education)

Data file: [LEVEL - 07 \(Section 4.2\)](#)

Overview

Valid: 4600
Invalid: 257353

Type: Discrete
Decimal: 0
Width: 1
Range: 1 - 1
Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases
1		4600 <div><div></div>100%</div>
Sysmiss		257353

THANK YOU