NHS
Somerset
NHS Foundation Trust

Data to compare from System A to System B & System X.

Surname
Firstname
DoB
Gender
Postcode
NHS Number
Local System ID

Check 2 - NHS Number

System A NN in B?
- No Match → No Return
- Match(es) → System A DoB in B?
  - True → Return 2a + Matched B ID
  - False → Return 2e + Matched B ID

Check 3 - Local System Identifier

System A ID in B?
- No Match → No Return
- Match(es) → System A DoB in B?
  - True → Return 3a + Matched B ID
  - False → Return 3e + Matched B ID

Check 4 - SN / FN / Dob / PC / Gender

System A matches B on SN / FN / DoB / PC / Gender?
- No Match → No Return
- Match(es) → Return 4 + Matched B ID

Check 5 - SN / FN / Dob / Gender

System A matches B on SN / FN / DoB / Gender?
- No Match → No Return
- Match(es) → Return 5 + Matched B ID

Check 6 - SN / Dob / PC / Gender

System A matches B on SN / DoB / PC / Gender?
- No Match → No Return
- Match(es) → Return 6 + Matched B ID

Check 7 - Any punctuation + spaces excluded from SN and FN in the comparison

System A matches B on SN / FN / DoB / PC / Gender?
- No Match → No Return
- Match(es) → Return 7 + Matched B ID

Check 8 - Soundex used in comparison for SN and FN.

System A matches B on SN / FN / DoB / PC / Gender?
- No Match → No Return
- Match(es) → Both Systems have valid but different NN?
  - True → No Return
  - False → Return 8a + Matched B ID

Collate Outputs.
Set "Num" to distinct count of System B ID's returned as matched.

Num > 1
- False → Num = 1
  - False → System A IDs Returned
    - True → Duplicates
    - False → No Match
  - True → 2a or 4 or 7
    - False → 1:1 Unconfident Match
    - True → 3a
      - True → 1:1 Confident Match
      - False → Multiple Match
- True → 3a

Duplicates ⟶ No Match

1:1 Unconfident Match → DBS Trace Sent / Results Received.
1:1 Confident Match → DBS Trace Sent / Results Received.
Multiple Match → DBS Trace Sent / Results Received.

DBS Trace Sent / Results Received.

Do all return a Successful Trace?
- True → All have same NNN?
  - True → Confirmed Match
  - False → Confirmed No Match (Remove as match)
- False → Algorithm output remains

Confirmed Match → Process End
Confirmed No Match (Remove as match) → Process End
Algorithm output remains → Process End

Process End