

Homeless Management Information System Tools in R

November 1, 2017

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clientErrorsByUserID	<i>Takes Client, removes records where SSNs are invalid, then links the PersonalIDs based upon matching SSNs. The Client is returned with a column called PrimaryPersonalID which should be a more unique identifier than the PersonalID alone.</i>
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Description

Takes Client, removes records where SSNs are invalid, then links the PersonalIDs based upon matching SSNs. The Client is returned with a column called PrimaryPersonalID which should be a more unique identifier than the PersonalID alone.

Usage

```
clientErrorsByUserID(client)
```

Arguments

dataframe	path to folder containing first CSV set.
primaryPersonalIDsOnly	Default false. Returns a dataframe of only PrimaryPersonalIDs and PersonalIDs

Examples

```
clientDf1 <- data.frame(PersonalID=c("ZP1U3EPU2FKAWI6K5US5LDV50KRI1LN7",
  "IA26X38HOTOIBHYIRV8CKR5RDS8KNGHV",
  "LASDU89NRABVJWW779W4JGGAN90IQ5B2"),
  FirstName=c("Timmy", "Fela", "Sarah"),
  LastName=c("Tesa", "Falla", "Kerrigan"),
  SSN=c("123456789", "123456789", "987654321"))

clientDf2 <- getPrimaryPersonalID(clientDf1)
# Remove the old PersonalID
clientDf2 <- within(clientDf2, rm(PersonalID))
colnames(clientDf2)[1] <- "PersonalID"
# Get a deduplicated Client
clientDf2 <- unique(clientDf2)
```

linkPersonalIDBySSN	<i>Takes Client, removes records where SSNs are invalid, then links the PersonalIDs based upon matching SSNs. The Client is returned with a column called PrimaryPersonalID which should be a more unique identifier than the PersonalID alone.</i>
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Description

Takes Client, removes records where SSNs are invalid, then links the PersonalIDs based upon matching SSNs. The Client is returned with a column called PrimaryPersonalID which should be a more unique identifier than the PersonalID alone.

Usage

```
linkPersonalIDBySSN(client, primaryPersonalIDsOnly = FALSE)
```

Arguments

primaryPersonalIDsOnly	Default false. Returns a dataframe of only PrimaryPersonalIDs and PersonalIDs
dataframe	path to folder containing first CSV set.

Examples

```
clientDf1 <- data.frame(PersonalID=c("ZP1U3EPU2FKAWI6K5US5LDV50KRI1LN7",
  "IA26X38HOTOIBHYIRV8CKR5RDS8KNGHV",
  "LASDU89NRABVJWW779W4JGGAN90IQ5B2"),
  FirstName=c("Timmy", "Fela", "Sarah"),
  LastName=c("Tesa", "Falla", "Kerrigan"),
  SSN=c("123456789", "123456789", "987654321"))

clientDf2 <- getPrimaryPersonalID(clientDf1)
# Remove the old PersonalID
clientDf2 <- within(clientDf2, rm(PersonalID))
```

```
colnames(clientDf2)[1] <- "PersonalID"
# Get a deduplicated Client
clientDf2 <- unique(clientDf2)
```

mergeHmisCSVs	<i>Merges two HMIS CSV sets.</i>
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Description

Merges two HMIS CSV sets.

Usage

```
mergeHmisCSVs(dataPathOne, dataPathTwo, pathForCombinedData, feather = FALSE)
```

Arguments

string	Path to folder containing first CSV set.
string	Path to folder containing second CSV set.
string	Path to output where merged CSVs will be written.
boolean	Save in feather file format. Default is false. Loading binary data from file takes around 1/10 the time compared to loading a CSV

Examples

```
# Data will be saved in CSV format.
mergeHmisCSVs('/Users/user/local/CSV_2016',
              '/Users/user/local/CSV_2016',
              '/Users/user/local/CSV_2016_and_2017')

# Data will be saved in binary format.
mergeHmisCSVs('/Users/user/local/CSV_2016',
              '/Users/user/local/CSV_2016',
              '/Users/user/local/CSV_2016_and_2017'
              feather = TRUE)
```

trendActivelyHomeless	<i>Merges two HMIS CSV sets.</i>
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Description

Merges two HMIS CSV sets.

Usage

```
trendActivelyHomeless(allDataPath, dropboxPath, interval = "week",
                      startDate = "", servicesThreshold = 0)
```

Arguments

string	path to folder containing first CSV set.
string	path to folder containing second CSV set.
string	path to output where merged CSVs will be written.
boolean	save in feather file format. Default is false.

See Also

[nchar](#) which this function wraps

Examples

```
mergeHmisCSVs('/Users/user/local/CSV_2016',  
              '/Users/user/local/CSV_2016',  
              '/Users/user/local/CSV_2016_and_2017')  
mergeHmisCSVs('/Users/user/local/CSV_2016',  
              '/Users/user/local/CSV_2016',  
              '/Users/user/local/CSV_2016_and_2017'  
              feather = TRUE)
```

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