

Package ‘I2B2API’

May 28, 2015

Title API to i2b2 that is exposed to the R IDE

Version 1.0

Description

This documentation describes the available functions that can be used in the R-IDE web interface.

Depends R (>= 3.0.2)

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LazyData true

R topics documented:

getConcepts	1
getObservations	2
GetObservationsForConcept	3
getObservationsWithLimit	3
getPatients	4
GetPatientSetDescription	4
getPatientsWithLimit	5
Index	6

getConcepts	<i>Get the prefixes of all concepts that start with anything from the concepts list (all concepts by default)</i>
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Description

Get the prefixes of all concepts that start with anything from the concepts list (all concepts by default)

Arguments

concepts list of concepts to be compared to. Defaults to empty, meaning any prefix.
 level Aggregates ICD codes, e.g. Level 3 = ICD:M54*, Level 1: ICD:M*

Value

list of distinct concept_cd prefixes

Examples

```
getConcepts()
getConcepts(c('K'), 3)
```

getObservations	<i>Get all observations with specified properties</i>
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Description

Get all observations with specified properties

Arguments

interval specifies the time frame where the observations should come from
 concepts specifies a subset where the observations should come from. Default is any concept.
 level specifies ICD level to aggregate, e.g. Level 3 = ICD:M54*, Level 1: ICD:M*
 patient_set id of the desired patient set, defaults to -1

Value

list of observations with attributes patient_num, concept_cd_sub

Examples

```
getObservations(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concepts=c("\\ICD\\", "\\ATC\\"), level=3, patient_set=-1)
getObservations(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),
  concepts=c("\\ICD\\M00-M99\\M50-M54\\M54"), level=3, patient_set=-1)
```

`GetObservationsForConcept`*Get all observations for a specified concept with specified properties*

Description

Get all observations for a specified concept with specified properties

Arguments

<code>interval</code>	specifies the time frame where the observations should come from
<code>concept.path</code>	specifies the path for the concept where the observations should come from.
<code>patient_set</code>	id of the desired patient set, defaults to -1

Value

list of observations with attributes `patient_num`, `concept_cd_sub`, `counts`

Examples

```
getObservationsForConcept(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),  
  concept.path="\ICD\M00-M99\M50-M54\M54\\"", patient_set=-1)
```

`getObservationsWithLimit`*Get observations with a limit to speed up development*

Description

Get observations with a limit to speed up development

Arguments

<code>interval</code>	specifies start and end of the interval in a list
<code>concepts</code>	list of concepts for the observations
<code>level</code>	specifies the aggregation level of concepts
<code>patients_limit</code>	limit of observations to be returned

Value

list of observations with `patient_num`, `concept_cd>sub`, `counts`

Examples

```
getObservationsWithLimit(list(start=i2b2DateToPOSIXlt("01/01/2009"), end=i2b2DateToPOSIXlt("01/01/2010")),  
  concepts=c("\ICD\\"), level=3, patients_limit=1000)
```

`getPatients`*Get all patients of a patient set*

Description

Get all patients of a patient set

Arguments

`patient_set` Id of the desired patient set

Value

list of patients with `patient_num`, `sex_cd`, `birth_date`

Examples

```
getPatients(patient_set=-1)
```

`GetPatientSetDescription`*Get the description of a patient set*

Description

Get the description of a patient set

Arguments

`patient_set` Id of the desired patient set

Value

string with description of the patient set

Examples

```
getPatientSetDescription(patient_set=42)
```

`getPatientsWithLimit` *Get patients of a patient set with a limit to speed up development*

Description

Get patients of a patient set with a limit to speed up development

Arguments

<code>patient_set</code>	Id of the desired patient set
<code>limit</code>	limit of patients to be returned

Value

list of patients with `patient_num`, `sex_cd`, `birth_date`

Examples

```
getPatients(patient_set=-1, limit=100)
```

Index

getConcepts, [1](#)
getObservations, [2](#)
GetObservationsForConcept, [3](#)
getObservationsWithLimit, [3](#)
getPatients, [4](#)
GetPatientSetDescription, [4](#)
getPatientsWithLimit, [5](#)