

Package ‘hR’

January 14, 2021

Type Package

Title Toolkit for Data Analytics in Human Resources

Version 0.2.50

Author Dale Kube [aut, cre]

Maintainer Dale Kube <dkube@uwalumni.com>

Description Transform and analyze workforce data in meaningful ways for human resources (HR) analytics. Get started with workforce planning using a simple Shiny app.

BugReports <https://github.com/dalekube/hR>

Encoding UTF-8

License GPL

LazyData true

RoxygenNote 7.1.1

Imports data.table, shiny, rhandsontable, knitr

Depends R(>= 2.10)

Suggests rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

Date/Publication 2021-01-14 06:00:07 UTC

R topics documented:

hierarchy	2
hierarchyStats	2
hierarchyValid	3
workforceHistory	4
workforcePlan	4
Index	6

 hierarchy

hierarchy

Description

The `hierarchy` function transforms a standard set of unique employee and supervisor identifiers (employee IDs, email addresses, etc.) into a wide or elongated format that can be used to aggregate employee data by a particular line of leadership (i.e. include everyone who rolls up to Susan).

Usage

```
hierarchy(ee, supv, format = "long", descending = TRUE)
```

Arguments

<code>ee</code>	A vector containing unique identifiers for employees.
<code>supv</code>	A vector containing unique identifiers for supervisors. These values should be of the same type as the employee values.
<code>format</code>	character string; either "long" or "wide"; default = "long".
<code>descending</code>	logical; default = TRUE. Should the hierarchy levels be descending (i.e. the top person in the hierarchy is represented at level 1)?

Value

data table

Examples

```
ee = c("Dale@hR.com", "Bob@hR.com", "Julie@hR.com", "Andrea@hR.com")
supv = c("Julie@hR.com", "Julie@hR.com", "Andrea@hR.com", "Susan@hR.com")
hierarchy(ee, supv, format="long", descending=TRUE)
```

 hierarchyStats

hierarchyStats

Description

The `hierarchyStats` function computes summary statistics and span of control metrics from a standard set of unique employee and supervisor identifiers (employee IDs, email addresses, etc.).

Usage

```
hierarchyStats(ee, supv)
```

Arguments

ee A vector containing unique identifiers for employees.
supv A vector containing unique identifiers for supervisors. These values should be of the same type as the employee values.

Value

list

Examples

```
ee = c("Dale@hR.com", "Bob@hR.com", "Julie@hR.com", "Andrea@hR.com")  
supv = c("Julie@hR.com", "Julie@hR.com", "Andrea@hR.com", "Susan@hR.com")  
hierarchyStats(ee, supv)
```

hierarchyValid	<i>hierarchyValid</i>
----------------	-----------------------

Description

The hierarchyValid function considers a standard set of unique employee and supervisor identifiers (employee IDs, email addresses, etc.) and validates the completeness and quality of the two input vectors representing the overall hierarchy.

Usage

```
hierarchyValid(ee, supv)
```

Arguments

ee A vector containing unique identifiers for employees.
supv A vector containing unique identifiers for supervisors. These values should be of the same type as the employee values.

Value

logical

Examples

```
ee = c("Dale@hR.com", "Bob@hR.com", "Julie@hR.com", "Andrea@hR.com")  
supv = c("Julie@hR.com", "Julie@hR.com", "Andrea@hR.com", "Susan@hR.com")  
hierarchyValid(ee, supv)
```

workforceHistory	<i>Workforce history data for a sample team of employees and contractors.</i>
------------------	---

Description

Artificial data that reflects the workforce history data structure often used to manage employment records in a human capital management system (HCM). Modern enterprises store data in this format at the core of their HCM. This data is the root source of all data analysis and reporting related to headcount, hiring, turnover, etc.

Usage

```
data(workforceHistory)
```

Format

A data table with 45 rows and 10 variables:

DATE Effective date of the record

SEQ Effective sequence of the record (used to manage multiple records for the same effective date)

ACTION Action

EMPLID Employee ID

SUPVID Supervisor ID

TYPE Employee type (employee or contractor)

REGTEMP Regular, temporary, or contract employment

TITLE Job title

STATUS Employment status

NAME Employee name ...

workforcePlan	<i>workforcePlan</i>
---------------	----------------------

Description

Launch a simple, interactive workforce planning worksheet that helps managers and team leaders to execute basic workforce planning tasks and plan ahead for hiring, turnover, and other factors that influence a team's talent structure. Data analysts can use this alongside team leaders to convey change and proactively think about recruitment, etc.

Usage

```
workforcePlan(launch.browser = T)
```

Arguments

launch.browser Logical; whether the app should launch in the user's default browser

Index

* **datasets**

workforceHistory, 4

hierarchy, 2

hierarchyStats, 2

hierarchyValid, 3

workforceHistory, 4

workforcePlan, 4