Package 'tm1r'

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Description Useful functions to connect to 'TM1' https://www.ibm.com/uk-en/products/planning-and-analytics instance from R via REST API. With the functions in the package, data can be imported from 'TM1' via mdx view or native view, data can be sent to 'TM1', processes and chores can be executed, and cube and dimension metadata information can be taken.
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tm1_api_request

TM1 API Request

Description

Makes a api request to tm1 server with url and body specified

Usage

```
tm1_api_request(tm1_connection, url, body ="", type = "GET")
```

Arguments

$tm1_{-}$	connection	tm1	connection	object	returned	by t	the	function	tm1	connection

url URL address for rest api request

body body text of request

type of api request. Requests in httr package are supported like GET, POST,

DELETE, PATCH

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Examples

```
## Not run:
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
url <- "https://localhost:8881/api/v1/Cubes('SalesCube')/Dimensions"
tm1_api_request(con_obj, url, type = "GET")
## End(Not run)</pre>
```

tm1_connection

TM1 Connection

Description

Creates and returns a connection object to connect to TM1 via REST API.

Usage

```
tm1_connection(adminhost = "localhost", httpport = "",
username = "admin", password = "apple",
namespace="", ssl=TRUE, base_url="")
```

httpport

Arguments

adminhost adminhost of tm1 model

httpport httpport of tm1 model

username username to connect to tm1 model

password password of the username

namespace ID of namespace should be specified if there is CAM security. Should be blank for native security

ssl If UseSSL parameter is T in tm1s.cfg file, then TRUE. Else FALSE. Default is TRUE

base_url when connecting to cloud, this option can be used instead of adminhost and

```
## Not run:
tm1_connection("localhost", "8881", "admin", "apple")
tm1_connection(username="admin", password="apple",
base_url = "https://[Customer_Name].planning-analytics.ibmcloud.com/tm1/api/[Server Name]/")
## End(Not run)
```

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tm1_create_element

TM1 Create New Element to a Dimension

Description

Inserts a new element to the dimension

Usage

```
tm1_create_element(tm1_connection,
  dimension, element, parent="", weight=1, type="Numeric")
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

dimension Name of dimension element Name of new element

parent Name of parent of new element. Leave bland if there is no parent.

weight Weight of the element as a component to the parent. Default is 1

type type of element; Numeric, String or Consolidated. Default is Numeric

Examples

```
## Not run:
tm1_create_element(tm1_connection("localhost", "8881", "admin", "apple"),
"month", "test", "Year")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_create_element(con_obj, "month", "test", "Year")
## End(Not run)</pre>
```

tm1_create_mdx

TM1 Generate mdx for a cube view

Description

Returns mdx as a string to use in the function tm1_get_mdx_view

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Usage

tm1_create_mdx(cube, rowdim1, rowsub1, rowel1, rowdim2, rowsub2, rowel2, rowdim3, rowsub3, rowel3, coldim1, colsub1, colel1, coldim2, colsub2, colel2, titledim1, titleel1, titledim2, titleel2, titledim3, titleel3, titledim4, titleel4, titledim5, titlee15, titledim6, titleel6, titledim7, titleel7, titledim8, titleel8, titledim9, titlee19, titledim10, titleel10,

Arguments

cube	Name of the cube
rowdim1	Name of dimension in 1st row
rowsub1	Subset of dimension in 1st row
rowel1	Element of dimension in 1st row. If multiple, seperated by "I". This should be passed if subset is not provided
rowdim2	Name of dimension in 2nd row
rowsub2	Subset of dimension in 2nd row
rowel2	Element of dimension in 2nd row. If multiple, seperated by "I". This should be passed if subset is not provided
rowdim3	Name of dimension in 3rd row
rowsub3	Subset of dimension in 3rd row
rowel3	Element of dimension in 3rd row. If multiple, seperated by "I". This should be passed if subset is not provided
coldim1	Name of dimension in 1st col
colsub1	Subset of dimension in 1st col
colel1	Element of dimension in 1st col. If multiple, seperated by "I". This should be passed if subset is not provided
coldim2	Name of dimension in 2nd col
colsub2	Subset of dimension in 2nd col
colel2	Element of dimension in 2nd col. If multiple, seperated by "I". This should be passed if subset is not provided
titledim1	Name of dimension in title

rowsuppress, colsuppress)

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titleel1	Element of dimension in corresponding titledim
titledim2	Name of dimension in title
titleel2	Element of dimension in corresponding titledim
titledim3	Name of dimension in title
titleel3	Element of dimension in corresponding titledim
titledim4	Name of dimension in title
titleel4	Element of dimension in corresponding titledim
titledim5	Name of dimension in title
titleel5	Element of dimension in corresponding titledim
titledim6	Name of dimension in title
titleel6	Element of dimension in corresponding titledim
titledim7	Name of dimension in title
titleel7	Element of dimension in corresponding titledim
titledim8	Name of dimension in title
titleel8	Element of dimension in corresponding titledim
titledim9	Name of dimension in title
titleel9	Element of dimension in corresponding titledim
titledim10	Name of dimension in title
titleel10	Element of dimension in corresponding titledim
rowsuppress	TRUE if zeroes are suppressed on rows
colsuppress	TRUE if zeroes are suppressed on columns

```
## Not run:

tm1_create_mdx( "SalesCube", rowdim1="account1", rowel1 = "Sales", coldim1="month", colel1="Jan",
titledim1 = "actvsbud", titleel1 = "Actual",
titledim2 = "region", titleel2 = "Argentina",
titledim3 = "model", titleel3 = "S Series 1.8 L Sedan",
rowsuppress=TRUE, colsuppress = FALSE)

## End(Not run)
```

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tm1_create_subset

TM1 Create New Subset to a Dimension

Description

Creates a new subset to the dimension

Usage

```
tm1_create_subset(tm1_connection,
  dimension, subset, element="", mdx="", overwrite=TRUE)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

dimension Name of dimension subset Name of new subset

element Name of elements seperated by I for static subset

mdx of subset for dynamic subset

overwrite TRUE or FALSE. If TRUE, subset is overwritten

Examples

```
## Not run:
tm1_create_subset(tm1_connection("localhost", "8881", "admin", "apple"),
"month", "Q1Months", element = "Jan|Feb|Mar")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_create_element(con_obj, "month", "all", mdx = "[month].MEMBERS")

## End(Not run)</pre>
```

tm1_create_view

TM1 Create View from mdx

Description

Creates cube view with mdx

Usage

```
tm1_create_view(tm1_connection, cube, view, mdx)
```

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Arguments

 $tm1_connection$ tm1 connection object returned by the function $tm1_connection$

cube Name of cube

view Name of view to be created mdx MDX of view as a string

Examples

```
## Not run:
mdx <- "SELECT
 NON EMPTY
  {[month].[Jan],[month].[Feb],[month].[Mar]}
  ON COLUMNS,
  NON EMPTY
     {[account1].[Price],[account1].[Units]}
  ON ROWS
 FROM [SalesCube]
 WHERE
   [actvsbud].[actvsbud].[Actual],
   [region].[region].[Argentina],
   [model].[model].[S Series 1.8 L Sedan]
  " (
tm1_create_view(
  tm1_connection("localhost", "8881", "admin", "apple"),
  "SalesCube", "test", mdx)
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")</pre>
tm1_create_view(con_obj, "SalesCube", "test", mdx)
## End(Not run)
```

tm1_delete_element

TM1 Delete Element or Component

Description

Deletes element or component from dimensions

Usage

```
tm1_delete_element(tm1_connection,
  dimension, element, parent="")
```

tm1_delete_subset

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

dimension Name of dimension element Name of element

parent Name of parent of element. If parent is specified, component delete will be

done. If parent is omitted, element will be deleted from dimension

Examples

```
## Not run:
tm1_delete_element(tm1_connection("localhost", "8881", "admin", "apple"),
"month", "test", "Year")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_delete_element(con_obj, "month", "test")

## End(Not run)</pre>
```

tm1_delete_subset

TM1 Delete Subset

Description

Deletes subset from dimensions

Usage

```
tm1_delete_subset(tm1_connection,
  dimension, subset)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

dimension Name of dimension subset Name of subset

```
## Not run:
tm1_delete_subset(tm1_connection("localhost", "8881", "admin", "apple"),
"month", "test")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_delete_subset(con_obj, "month", "test")

## End(Not run)</pre>
```

tm1_get_config

tm1_delete_view

TM1 Delete View

Description

Deletes cube view

Usage

```
tm1_delete_view(tm1_connection, cube, view)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

cube Name of cube

view Name of view to be deleted

Examples

```
## Not run:

tm1_delete_view(
    tm1_connection("localhost", "8881", "admin", "apple"),
    "SalesCube", "test")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_delete_view(con_obj, "SalesCube", "test")

## End(Not run)</pre>
```

tm1_get_config

TM1 Get Configuration

Description

Gets configuration of tm1 instance

Usage

```
tm1_get_config(tm1_connection)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

tm1_get_cubes

Examples

```
## Not run:
tm1_get_config(tm1_connection("localhost", "8881", "admin", "apple"))
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_config(con_obj)
## End(Not run)</pre>
```

tm1_get_cubes

TM1 Get Cubes

Description

Gets list of cubes

Usage

```
tm1_get_cubes(tm1_connection, ShowControlObjects = FALSE)
```

Arguments

 $\label{tm1} \verb|connection| tm1| connection object returned by the function tm1| connection ShowControlObjects$

If TRUE, control cubes are also listed. Default is FALSE

Examples

```
## Not run:
tm1_get_cubes(tm1_connection("localhost", "8881", "admin", "apple"))
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_cubes(con_obj)
## End(Not run)</pre>
```

tm1_get_cube_dimensions

TM1 Get Dimensions of a Cube

Description

Gets dimensions of a cube

Usage

```
tm1_get_cube_dimensions(tm1_connection, cube)
```

tm1_get_data

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection cube Name of a cube as a string

Examples

```
## Not run:
tm1_get_cube_dimensions(
tm1_connection("localhost", "8881", "admin", "apple"),
    "SalesCube")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_cube_dimensions(con_obj, "SalesCube")
## End(Not run)</pre>
```

tm1_get_data

TM1 Get Data from a Cube

Description

Gets data from a cube, Supports up-to 10 dimension for now

Usage

Arguments

tm1_connection	tm1 connection object returned by the function tm1_connection
cube	Name of a cube as a string
element1	Element from 1st dimension of cube. Leave empty if there is no corresponding dimension
element2	Element from 2nd dimension of cube. Leave empty if there is no corresponding dimension
element3	Element from 3rd dimension of cube. Leave empty if there is no corresponding dimension
element4	Element from 4th dimension of cube. Leave empty if there is no corresponding dimension
element5	Element from 5th dimension of cube. Leave empty if there is no corresponding dimension

tm1_get_dimensions

element6	Element from 6th dimension of cube. Leave empty if there is no corresponding dimension
element7	Element from 7th dimension of cube. Leave empty if there is no corresponding dimension
element8	Element from 8th dimension of cube. Leave empty if there is no corresponding dimension
element9	Element from 9th dimension of cube. Leave empty if there is no corresponding dimension
element10	Element from 10th dimension of cube. Leave empty if there is no corresponding dimension

Examples

```
## Not run:
tm1_get_data(
   tm1_connection("localhost", "8881", "admin", "apple"),
   "SalesCube", "Actual", "Argentina", "Total", "Sales", "Jan")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_data(con_obj, "SalesCube", "Actual", "Argentina", "Total", "Sales", "Jan")

## End(Not run)</pre>
```

tm1_get_dimensions

TM1 Get Dimensions

Description

Gets list of dimensions

Usage

```
tm1_get_dimensions(tm1_connection, ShowControlObjects = FALSE)
```

Arguments

 $\verb|tm1_connection| tm1| connection object returned by the function tm1_connection ShowControlObjects$

If TRUE, control dimensions are also listed. Default is FALSE

```
## Not run:
tm1_get_dimensions(tm1_connection("localhost", "8881", "admin", "apple"))
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_dimensions(con_obj)
## End(Not run)</pre>
```

```
tm1\_get\_dimension\_attributes
```

TM1 Get Attributes of a Dimension

Description

Gets attributes of a dimension

Usage

```
tm1_get_dimension_attributes(tm1_connection, dimension)
```

Arguments

```
tm1_connection tm1 connection object returned by the function tm1_connection dimension  
Name of a dimension as a string
```

Examples

```
## Not run:
tm1_get_dimension_attributes(
tm1_connection("localhost", "8881", "admin", "apple"),
    "region")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_dimension_attributes(con_obj, "region")
## End(Not run)</pre>
```

```
tm1_get_dimension_elements
```

TM1 Get Elements of a Dimension

Description

Gets elements of a dimension

Usage

```
tm1_get_dimension_elements(tm1_connection, dimension)
```

Arguments

```
\begin{tabular}{ll} $tm1$-connection & $tm1$-connection object returned by the function $tm1$-connection \\ dimension & Name of a dimension as a string \\ \end{tabular}
```

Examples

tm1_get_dimension_subsets

TM1 Get Subsets of a Dimension

Description

Gets subsets of a dimension

Usage

```
tm1_get_dimension_subsets(tm1_connection, dimension)
```

Arguments

```
tm1_connection tm1 connection object returned by the function tm1_connection dimension  
Name of a dimension as a string
```

```
## Not run:
tm1_get_dimension_subsets(
tm1_connection("localhost", "8881", "admin", "apple"),
    "region")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_dimension_subsets(con_obj, "region")
## End(Not run)</pre>
```

tm1_get_instances

tm1_get_element

TM1 Get Element of a Dimension

Description

Gets element detail of a dimension. Name, UniqueName, Type, Level, Index, and Components. element or index should be specified

Usage

```
tm1_get_element(tm1_connection, dimension, element="", index = 0)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection

dimension Name of a dimension as a string
element Name of element as a string
index Index of element as a numeric

Examples

```
## Not run:
tm1_get_element(
tm1_connection("localhost", "8881", "admin", "apple"),
"month", "Year")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_element(con_obj, "month", "", 7)

## End(Not run)</pre>
```

tm1_get_instances

TM1 Get Instances

Description

Returns the list of tm1 instances in the specified adminhost

Usage

```
tm1_get_instances(adminhost = "localhost", port = "5898", ssl=TRUE)
```

Arguments

adminhost adminhost of tm1 models port port of admin server

ssl If TRUE it will be accesses through https

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Examples

tm1_get_log

TM1 Get Logs of an instance

Description

Gets server logs from a tm1 instance

Usage

```
tm1_get_log(tm1_connection, lognumber)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection lognumber
Number of how many lines of logs you want. Default is 5

Examples

```
## Not run:
tm1_get_log(tm1_connection("localhost", "8881", "admin", "apple"), 10)
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_get_log(con_obj)
## End(Not run)</pre>
```

tm1_get_mdx_view

TM1 Get Data from an MDX View

Description

Gets mdx view data

Usage

```
tm1_get_mdx_view(tm1_connection, mdx, RowElementAsColumn = FALSE)
```

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Arguments

Examples

```
## Not run:
mdx <- "SELECT
  NON EMPTY
  {[month].[Jan],[month].[Feb],[month].[Mar]}
  ON COLUMNS,
  NON EMPTY
     {[account1].[Price],[account1].[Units]}
  ON ROWS
 FROM [SalesCube]
 WHERE
   [actvsbud].[actvsbud].[Actual],
   [region].[region].[Argentina],
   [model].[model].[S Series 1.8 L Sedan]
tm1_get_mdx_view(
  tm1_connection("localhost", "8881", "admin", "apple"),
  mdx, RowElementAsColumn=FALSE)
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")</pre>
tm1_get_mdx_view(con_obj,mdx)
## End(Not run)
```

tm1_get_native_view

TM1 Get Data from a Native View

Description

Gets native view data

Usage

```
tm1_get_native_view(tm1_connection, cube, view, RowElementAsColumn= FALSE)
```

Arguments

```
\begin{array}{ll} \text{tm1\_connection} & \text{tm1 connection object returned by the function } \text{tm1\_connection} \\ \text{cube} & \text{Name of the cube} \\ \text{view} & \text{Name of the view} \\ \text{RowElementAsColumn} \end{array}
```

if False, row elements will be attached to rownames of data frame

Examples

tm1_get_subset_elements

TM1 Get Elements of a subset

Description

Gets elements of a subset

Usage

```
tm1_get_subset_elements(tm1_connection, dimension, subset)
```

Arguments

```
tm1_connectiontm1 connection object returned by the function tm1_connectiondimensionName of a dimension as a stringsubsetName of a subset as a string
```

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tm1_logout

TM1 Log Out

Description

Logs out

Usage

```
tm1_logout(tm1_connection)
```

Arguments

 $tm1_connection$ tm1 connection object returned by the function $tm1_connection$

Examples

```
## Not run:
tm1_logout(tm1_connection("localhost", "8881", "admin", "apple"))
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_logout(con_obj)
## End(Not run)</pre>
```

tm1_run_chore

TM1 Run a Chore

Description

Runs a chore

Usage

```
tm1_run_chore(tm1_connection, chore)
```

Arguments

```
tm1_connection tm1 connection object returned by the function tm1_connection chore Name of a chore as a string
```

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Examples

```
## Not run:
tm1_run_chore(tm1_connection("localhost", "8881", "admin", "apple"), "test")
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_run_chore(con_obj, "test")
## End(Not run)</pre>
```

tm1_run_process

TM1 Run a Process

Description

Runs a process

Usage

```
tm1_run_process(tm1_connection,
  process,
  par1name, par1value,
  par2name, par2value,
  par3name, par3value)
```

Arguments

tm1_connection tm1 connection object returned by the function tm1_connection process
Name of a process as a string
par1name
Name of a parameter
par2value
Value of a parameter
par2value
Value of a parameter
par3value
Value of a parameter
par3

```
## Not run:
tm1_run_process(tm1_connection("localhost", "8881", "admin", "apple"), "test")
con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_run_process(con_obj, "test")
## End(Not run)</pre>
```

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tm1_send_data

TM1 Send Data to a Cube

Description

Send data to a cube, Supports up-to 10 dimension for now

Usage

Arguments

tm1_connection	tm1 connection object returned by the function tm1_connection
value	data value you want to send to cube
cube	Name of a cube as a string
element1	Element from 1st dimension of cube. Leave empty if there is no dimension
element2	Element from 2nd dimension of cube. Leave empty if there is no dimension
element3	Element from 3rd dimension of cube. Leave empty if there is no dimension
element4	Element from 4th dimension of cube. Leave empty if there is no dimension
element5	Element from 5th dimension of cube. Leave empty if there is no dimension
element6	Element from 6th dimension of cube. Leave empty if there is no dimension
element7	Element from 7th dimension of cube. Leave empty if there is no dimension
element8	Element from 8th dimension of cube. Leave empty if there is no dimension
element9	Element from 9th dimension of cube. Leave empty if there is no dimension
element10	Element from 10th dimension of cube. Leave empty if there is no dimension
increment	If TRUE, it will increment cube data by Value. If False, it will replace. This parameter is ignored in sending string values.

```
## Not run:
tm1_send_data(
   tm1_connection("localhost", "8881", "admin", "apple"),
   10,
   "SalesCube",
   "Actual", "Argentina", "S Series 1.8 L Sedan", "Units", "Jan")

con_obj <- tm1_connection("localhost", "8881", "admin", "apple")
tm1_send_data(con_obj,
   10,</pre>
```

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```
"SalesCube",
"Actual", "Argentina", "S Series 1.8 L Sedan", "Units", "Jan",
increment=TRUE)

## End(Not run)
```

 $tm1_send_dataset$

TM1 Send Data Set to a Cube

Description

Send data to a cube, Supports up-to 10 dimension for now

Usage

Arguments

tm1_connection	tm1 connection object returned by the function tm1_connection
valueset	data frame or matrix object holding values you want to send to cube
cube	Name of a cube as a string
rowdim	Corresponding dimension of the elements on row
coldim	Corresponding dimension of the elements on column
rowdim2	Corresponding dimension of the elements on row2
rowdim3	Corresponding dimension of the elements on row3
rowdim4	Corresponding dimension of the elements on row4
rowdim5	Corresponding dimension of the elements on row5
titledim1	Name of dimension in title
titleel1	Element of dimension in corresponding titledim
titledim2	Name of dimension in title
titleel2	Element of dimension in corresponding titledim
titledim3	Name of dimension in title
titleel3	Element of dimension in corresponding titledim
titledim4	Name of dimension in title
titleel4	Element of dimension in corresponding titledim
titledim5	Name of dimension in title

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titleel5	Element of dimension in corresponding titledim
titledim6	Name of dimension in title
titleel6	Element of dimension in corresponding titledim
titledim7	Name of dimension in title
titleel7	Element of dimension in corresponding titledim
titledim8	Name of dimension in title
titleel8	Element of dimension in corresponding titledim

```
## Not run:
sdata <- tm1_connection("localhost", "8881", "admin", "apple")

#valueset
# Argentina Brazil
#Jan 1 2
#Feb 3 4

tm1_send_dataset(
    sdata,
    valueset = valueset, cube = "SalesCube",
    rowdim = "month", coldim = "region",
    titledim1 = "actvsbud", titleel1 = "Actual",
    titledim2 = "model", titleel2 = "L Series 1.6 L Convertible",
    titledim3 = "account1", titleel3 = "Units")

## End(Not run)</pre>
```

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