

Rdb

A relational database service

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1. Overview

Rdb: *A relational database service*

2. Design

Super Type
[SystemService](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
Template Directory	
Data View	Children, proximity: 1
Logger Name	

3. Constraints

3.1. Allowed Child Dependencies

- [RdbConnection](#) 1
- RdbData
- [RdbDriver](#) 1
- [RdbInstanceName](#) 1
- [RdbPassword](#) 1
- [RdbPort](#) 1
- [RdbSchema](#) 1
- [RdbType](#) 1
- [RdbUserName](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

3.2. Allowed Parent Dependencies

- [JBossServer](#)
- Node
- Site
- [TomcatServer](#)

4. Attributes

4.1. Defaults for Imported Attributes

Name	Default
rdbConnection	jdbc:hsqldb:hsq!://localhost:1701
rdbDriver	org.hsqldb.jdbcDriver
rdbInstanceName	default
rdbPassword	
rdbPort	1701
rdbType	hsqldb
rdbUserName	sa

5. Commands

Note:

Commandline options displayed in square brackets "["] are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

5.1. Schemas-ExportDmp

Calls each RdbSchema resource to export its database schema to a dump package

Usage

```
Schemas-ExportDmp -buildstamp <> [-command <ExportDmp>]
[-resourcetype <.*RdbSchema>]
```

5.1.1. Workflow

1. dispatchCmd

Options

Option	Description
buildstamp	<i>Unique build identifier</i>
command	<i>Command to execute</i>
resourcetype	<i>Type of resource to dispatch</i>

5.2. assertServiceIsUp

checks if the service is up

Usage

```
assertServiceIsUp [-count <3>] [-rdbinstance
<${entity.attribute.rdbInstanceName}>] [-rdbservicepassword
<${entity.attribute.rdbPassword}>] [-rdbserviceusername
<${entity.attribute.rdbUserName}>]
```

Options

Option	Description
count	<i>number of times to ping</i>
rdbinstance	<i>Instance name</i>
rdbservicepassword	<i>Database user's password</i>
rdbserviceusername	<i>Database user name</i>

5.3. Schemas-ImportDmp

Calls each RdbSchema resource to import its dump file package

Usage

```
Schemas-ImportDmp [-command <ImportDmp>] [-resourcetype
<.*RdbSchema>]
```

5.3.1. Workflow

1. dispatchCmd

Options

Option	Description
command	<i>Command to execute</i>
resourcetype	<i>Resource type to dispatch</i>

5.4. Deploy

Runs the Rdb update process

Usage

```
Deploy
```

5.4.1. Workflow

1. Packages-Install
2. [Schemas-ImportDmp](#)

6. Related Types

The following types are defined for use with Rdb.

6.1. RdbSetting

6.1.1. Overview

RdbSetting: *an Rdb setting*

6.1.2. Design

Super Type Setting

Role	Abstract. (Objects cannot be created.)
Instance Names	Unique

6.1.3. Constraints

6.1.3.1. Allowed Parent Dependencies

- [Rdb](#)

6.2. RdbDriver

6.2.1. Overview

RdbDriver: *Specifies the Database Driver*

6.2.2. Design

Super Type [RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.2.3. Attributes

6.2.3.1. Exported Attributes

Name	Property
rdbDriver	settingValue

6.3. RdbConnection

6.3.1. Overview

RdbConnection: *Specifies the Database Connection*

6.3.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.3.3. Attributes

6.3.3.1. Exported Attributes

Name	Property
rdbConnection	settingValue

6.4. RdbPort

6.4.1. Overview

RdbPort: *Specifies the Database Connection Port*

6.4.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.4.3. Attributes

6.4.3.1. Exported Attributes

Name	Property
rdbPort	settingValue

6.5. RdbType

6.5.1. Overview

RdbType: Specifies the unique key value identifying which type database type is in use (e.g. "mssql" or "oracle", etc)

6.5.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.5.3. Attributes

6.5.3.1. Exported Attributes

Name	Property
rdbType	settingValue

6.6. RdbUserName

6.6.1. Overview

RdbUserName: A user for a schema

6.6.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
------	--

Instance Names	Unique
----------------	---------------

6.6.3. Attributes

6.6.3.1. Exported Attributes

Name	Property
rdbUserName	settingValue

6.7. RdbPassword

6.7.1. Overview

RdbPassword: *A schema user's password*

6.7.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.7.3. Constraints

6.7.4. Attributes

6.7.4.1. Exported Attributes

Name	Property
rdbPassword	settingValue

6.8. RdbInstanceName

6.8.1. Overview

RdbInstanceName: *Stores the value of the database instance name*

6.8.2. Design

Super Type
[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.8.3. Attributes**6.8.3.1. Exported Attributes**

Name	Property
rdbInstanceName	settingValue