API Documentation

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April 30, 2007

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1.1 Modules

2 Module z3c.sqlalchemy.base

2.1 Class BaseWrapper

Known Subclasses: z3c.sqlalchemy.base.ZopeBaseWrapper, z3c.sqlalchemy.postgres.PythonPostgresWrapper

2.1.1 Methods

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, *dsn*, *model*=`None`, ***kw*)

'dsn' - a RFC-1738-style connection string
'model' - optional instance of model.Model
'kw' - optional keyword arguments passed to create_engine()

Overrides: object.__init__

__new__(*T*, *S*, ...)
Return Value

```
a new object with type S, a subtype of T
```

__providedBy__(...)

Object Specification Descriptor

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

getMapper(*self*, *tablename*, *schema='public'*)

getMappers(*self*, **names*)

registerMapper(*self*, *mapper*, *name*)

2.1.2 Properties

Name	Description
__class__	**Value:** <attribute '__class__' of 'object' objects>
engine	**Value:** <property object at 0x2b6e762adf00>
metadata	**Value:** <property object at 0x2b6e762ade60>
model	**Value:** <property object at 0x2b6e762adf50>
session	**Value:** <property object at 0x2b6e762adeb0>

2.1.3 Class Variables

Name	Description
__implemented__	**Value:** <implementedBy z3c.sqlalchemy.base.BaseWrapper>
__provides__	**Value:** <zope.interface.declarations.ClassProvides object at 0x2b...

2.2 Class DataManager

object

z3c.sqlalchemy.base.DataManager

Wraps session into transaction context of Zope

2.2.1 Methods

__init__(*self*, *session*)
x.__init__(...) initializes x; see x.__class__.__doc__ for signature

Overrides: object.__init__ extit(inherited documentation)

tpc_begin(*self*, *trans*)

abort(*self*, *trans*)

commit(*self*, *trans*)

tpc_vote(*self*, *trans*)

tpc_finish(*self*, *trans*)

tpc_abort(*self*, *trans*)

sortKey(*self*)

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__new__(*T*, *S*, ...)
Return Value

```
a new object with type S, a subtype of T
```

__providedBy__(...)

Object Specification Descriptor

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

2.2.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

2.2.3 Class Variables

Name	Description
__implemented__	**Value:** `<implementedBy z3c.sqlalchemy.base.DataManager>`
__provides__	**Value:** `<zope.interface.declarations.ClassProvides object at 0x2b...`

2.3 Class ZopeBaseWrapper

object

z3c.sqlalchemy.base.BaseWrapper

z3c.sqlalchemy.base.ZopeBaseWrapper

Known Subclasses: z3c.sqlalchemy.postgres.ZopePostgresWrapper

A wrapper to be used from within Zope. It connects the session with the transaction management of Zope.

2.3.1 Methods

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, *dsn*, *model*=`None`, ***kw*)

'dsn' - a RFC-1738-style connection string
'model' - optional instance of model.Model
'kw' - optional keyword arguments passed to create_engine()

Overrides: object.__init__

__new__(*T*, *S*, *...*)
Return Value
`a new object with type S, a subtype of T`

__providedBy__(*...*)

Object Specification Descriptor

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

getMapper(*self*, *tablename*, *schema*=`'public'`)

getMappers(*self*, **names*)

registerMapper(*self*, *mapper*, *name*)

2.3.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`
engine	**Value:** `<property object at 0x2b6e762adf00>`
metadata	**Value:** `<property object at 0x2b6e762ade60>`
model	**Value:** `<property object at 0x2b6e762adf50>`

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Name	Description
session	**Value:** `<property object at 0x2b6e763c72d0>`

2.3.3 Class Variables

Name	Description
__implemented__	**Value:** `<implementedBy z3c.sqlalchemy.base.BaseWrapper>`
__provides__	**Value:** `<zope.interface.declarations.ClassProvides object at 0x2b...`

3 Module z3c.sqlalchemy.interfaces

3.1 Class ISQLAlchemyWrapper

zope.interface.Interface

z3c.sqlalchemy.interfaces.ISQLAlchemyWrapper

A SQLAlchemyWrapper wraps sqlalchemy and deals with connection and transaction handling.

3.1.1 Methods

registerMapper(*mapper*, *name*)

register your own mapper under a custom name

getMapper(*tablename*, *schema*=`'public'`)

return a mapper class for a table given by its 'tablename' and an optional 'schema' name

getMappers(**tablenames*)

return a sequence of mapper classes for a given list of table names. ATT: Schema support?

3.1.2 Class Variables

Name	Description
dsn	**Value:** `TextLine(title= u'A RFC-1738 style connection string', re...`
dbname	**Value:** `TextLine(title= u'Database name', required= True)`
host	**Value:** `TextLine(title= u'Hostname of database', required= True)`
port	**Value:** `Int(title= u'Port of database', required= True)`
username	**Value:** `TextLine(title= u'Database user', required= True)`
password	**Value:** `TextLine(title= u'Password of database user', required= T...`
echo	**Value:** `Bool(title= u'Echo all SQL statements to the console', re...`
__bases__	**Value:** `(<InterfaceClass zope.interface.Interface>)`
__identifier__	**Value:** `'z3c.sqlalchemy.interfaces.ISQLAlchemyWrapper'`
__iro__	**Value:** `(<InterfaceClass z3c.sqlalchemy.interfaces.ISQLAlchemyWra...`
__name__	**Value:** `'ISQLAlchemyWrapper'`
__sro__	**Value:** `(<InterfaceClass z3c.sqlalchemy.interfaces.ISQLAlchemyWra...`

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Name	Description
dependents	**Value:** `<WeakKeyDictionary at 47753428893064>`

3.2 Class IModelProvider

zope.interface.Interface

z3c.sqlalchemy.interfaces.IModelProvider

A model providers provides information about the tables to be used and the mapper classes.

3.2.1 Methods

getModel(*metadata*=`None`)

The model is described as an ordered dictionary. The entries are (tablename, some_dict) where 'some_dict' is a dictionary containing a key 'table' referencing a Table() instance and an optional key 'relationships' referencing a sequence of related table names. An optional mapper class can be specified through the 'class' key (otherwise a default mapper class will be autogenerated).

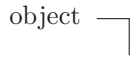
3.2.2 Class Variables

Name	Description
__bases__	**Value:** `(<InterfaceClass zope.interface.Interface>)`
__identifier__	**Value:** `'z3c.sqlalchemy.interfaces.IModelProvider'`
__iro__	**Value:** `(<InterfaceClass z3c.sqlalchemy.interfaces.IModelProvider...`
__name__	**Value:** `'IModelProvider'`
__sro__	**Value:** `(<InterfaceClass z3c.sqlalchemy.interfaces.IModelProvider...`
dependents	**Value:** `<WeakKeyDictionary at 47753428890256>`

4 Module z3c.sqlalchemy.mapper

Utility methods for SqlAlchemy

4.1 Class MappedClassBase



Known Subclasses: z3c.sqlalchemy.test.HierarchyNode

base class for all mapped classes

4.1.1 Methods

__init__(*self*, ***kw*)

accepts keywords arguments used for initialization of mapped attributes/columns.

Overrides: object.__init__

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__new__(*T*, *S*, ...)

Return Value

```
a new object with type S, a subtype of T
```

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

4.1.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

4.2 Class MapperFactory

object
└
z3c.sqlalchemy.mapper.MapperFactory

a factory for table and mapper objects

4.2.1 Methods

__init__(*self*, *metadata*)
x.__init__(...) initializes x; see x.__class__.__doc__ for signature

Overrides: object.__init__ extit(inherited documentation)

__call__(*self*, *table*, *properties*=`{}`, *cls*=`None`)

Returns a tuple (mapped_class, table_class). 'table' - sqlalchemy.Table to be mapped
'properties' - dict containing additional informations about
'cls' - (optional) class used as base for creating the mapper class (will be autogenerated if not available).

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__new__(*T*, *S*, ...)
Return Value
`a new object with type S, a subtype of T`

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

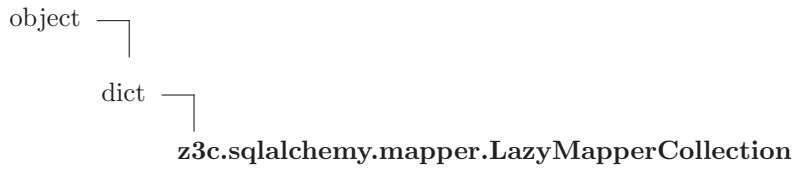
__str__(*x*)

str(x)

4.2.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

4.3 Class LazyMapperCollection



Implements a cache for table mappers

4.3.1 Methods

__init__(*self*, *wrapper*)
x.__init__(...) initializes x; see x.__class__.__doc__ for signature

Return Value
`new empty dictionary`

Overrides: dict.__init__ extit(inherited documentation)

getMapper(*self*, *name*, *schema='public'*)

return a (cached) mapper class for a given table 'name'

__cmp__(*x*, *y*)

cmp(x,y)

__contains__(*D*, *k*)

Return Value

```
True if D has a key k, else False
```

__delattr__(*...*)

x.__delattr__('name') <==> del x.name

__delitem__(*x*, *y*)

del x[y]

__eq__(*x*, *y*)

x==y

__ge__(*x*, *y*)

x>=y

__getattribute__(*...*)

x.__getattribute__('name') <==> x.name

Overrides: object.__getattribute__

__getitem__(*x*, *y*)

x[y]

__gt__(*x*, *y*)

x>y

__hash__(*x*)

hash(x)

Overrides: object.__hash__

__iter__(*x*)

iter(x)

__le__(*x*, *y*)

x<=y

__len__(*x*)

len(x)

__lt__(*x*, *y*)

x<y

__ne__(*x*, *y*)

x!=y

__new__(*T*, *S*, *...*)

Return Value

```
a new object with type S, a subtype of T
```

Overrides: object.__new__

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*x*)

repr(x)

Overrides: object.__repr__

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__setitem__(*x*, *i*, *y*)

x[i]=y

__str__(*x*)

str(x)

clear(*D*)

Remove all items from D.

Return Value

```
None
```

copy(*D*)
Return Value
`a shallow copy of D`

fromkeys(*dict*, *S*, *v*=...)

v defaults to None.

Return Value
`New dict with keys from S and values equal to v`

get(*D*, *k*, *d*=...)

d defaults to None.

Return Value
`D[k] if k in D, else d`

has_key(*D*, *k*)
Return Value
`True if D has a key k, else False`

items(*D*)
Return Value
`list of D's (key, value) pairs, as 2-tuples`

iteritems(*D*)
Return Value
`an iterator over the (key, value) items of D`

iterkeys(*D*)
Return Value
`an iterator over the keys of D`

itervalues(*D*)
Return Value
`an iterator over the values of D`

keys(*D*)
Return Value
`list of D's keys`

pop(*D*, *k*, *d*=...)

If key is not found, d is returned if given, otherwise KeyError is raised

Return Value
`v, remove specified key and return the corresponding value`

popitem(*D*)

2-tuple; but raise KeyError if D is empty

Return Value

```
(k, v), remove and return some (key, value) pair as a
```

setdefault(*D*, *k*, *d*=...)

Return Value

```
D.get(k,d), also set D[k]=d if k not in D
```

update(*D*, *E*, ***F*)

Update D from E and F: for k in E: D[k] = E[k] (if E has keys else: for (k, v) in E: D[k] = v) then: for k in F: D[k] = F[k]

Return Value

```
None
```

values(*D*)

Return Value

```
list of D's values
```

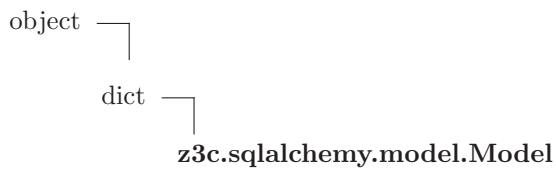
4.3.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

5 Module z3c.sqlalchemy.model

Optional Model support

5.1 Class Model



The Model is an optional helper class that can be passed to the constructor of a SQLAlchemy wrapper in order to provide hints for the mapper generation.

5.1.1 Methods

__init__(*self*, **args*)

The constructor can be called with a series of dict. Each dict represents a single table and its data (see add() method).

Return Value

```
new empty dictionary
```

Overrides: dict.__init__

add(*self*, *name*, *table*=`None`, *mapper_class*=`None`, *relations*=`None`, *autodetect_relations*=`False`, *table_name*=`None`)

'name' – name of table (no schema support so far!)
'table' – a sqlalchemy.Table instance (None, for autoloading)
'mapper_class' – an optional class to be used as mapper class for 'table'
'relations' – an optional list of table names referencing 'table'. This is used for auto-constructing the relation properties of the mapper class.
'autodetect_relations' – try to autodetect the relationships between tables and auto-construct the relation properties of the mapper if 'relations' is omitted (set to None)
'table_name' – optional full name of a table (e.g. 'someschema.sometable') if you want to use 'name' as alias for the table.

items(*self*)

return items in insertion order

Return Value

```
list of D's (key, value) pairs, as 2-tuples
```

Overrides: dict.items

__cmp__(*x*, *y*)

cmp(x,y)

__contains__(*D*, *k*)
Return Value
`True if D has a key k, else False`

__delattr__(*...*)

x.__delattr__('name') <==> del x.name

__delitem__(*x*, *y*)

del x[y]

__eq__(*x*, *y*)

x==y

__ge__(*x*, *y*)

x>=y

__getattribute__(*...*)

x.__getattribute__('name') <==> x.name

Overrides: object.__getattribute__

__getitem__(*x*, *y*)

x[y]

__gt__(*x*, *y*)

x>y

__hash__(*x*)

hash(x)

Overrides: object.__hash__

__iter__(*x*)

iter(x)

__le__(*x*, *y*)

x<=y

__len__(*x*)

len(x)

__lt__(*x*, *y*)

x<y

__ne__(*x*, *y*)

x!=y

__new__(*T*, *S*, *...*)
Return Value
`a new object with type S, a subtype of T`

Overrides: object.__new__

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*x*)

repr(x)

Overrides: object.__repr__

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__setitem__(*x*, *i*, *y*)

x[i]=y

__str__(*x*)

str(x)

clear(*D*)

Remove all items from D.

Return Value
`None`

copy(*D*)
Return Value
`a shallow copy of D`

fromkeys(*dict*, *S*, *v*=...)

v defaults to None.

Return Value

```
New dict with keys from S and values equal to v
```

get(*D*, *k*, *d*=...)

d defaults to None.

Return Value

```
D[k] if k in D, else d
```

has_key(*D*, *k*)

Return Value

```
True if D has a key k, else False
```

iteritems(*D*)

Return Value

```
an iterator over the (key, value) items of D
```

iterkeys(*D*)

Return Value

```
an iterator over the keys of D
```

itervalues(*D*)

Return Value

```
an iterator over the values of D
```

keys(*D*)

Return Value

```
list of D's keys
```

pop(*D*, *k*, *d*=...)

If key is not found, d is returned if given, otherwise KeyError is raised

Return Value

```
v, remove specified key and return the corresponding value
```

popitem(*D*)

2-tuple; but raise KeyError if D is empty

Return Value

```
(k, v), remove and return some (key, value) pair as a
```

setdefault(*D*, *k*, *d*=...)

Return Value

```
D.get(k,d), also set D[k]=d if k not in D
```

update(*D*, *E*, ***F*)

Update D from E and F: for k in E: D[k] = E[k] (if E has keys else: for (k, v) in E: D[k] = v) then: for k in F: D[k] = F[k]

Return Value

```
None
```

values(*D*)

Return Value

```
list of D's values
```

5.1.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

6 Module z3c.sqlalchemy.postgres

6.1 Class PostgresMixin

object
└ **z3c.sqlalchemy.postgres.PostgresMixin**

Known Subclasses: z3c.sqlalchemy.postgres.PythonPostgresWrapper, z3c.sqlalchemy.postgres.ZopePostgresWrapper

Mixin class for Postgres aspects

6.1.1 Methods

findDependentTables(*self*, *schema*=`'public'`, *ignoreErrors*=`False`)

Returns a mapping tablename -> [list of referencing table(names)]. ATT: this method is specific to Postgres databases! ATT: This method is limited to a particular schema.

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(...)

x.__init__(...) initializes x; see x.__class__.__doc__ for signature

__new__(*T*, *S*, ...)
Return Value
`a new object with type S, a subtype of T`

__providedBy__(...)

Object Specification Descriptor

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

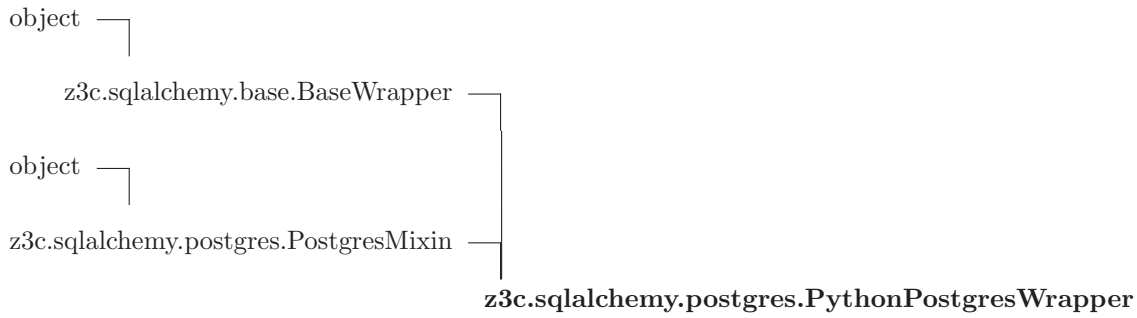
6.1.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

6.1.3 Class Variables

Name	Description
__implemented__	**Value:** `<implementedBy z3c.sqlalchemy.postgres.PostgresMixin>`
__provides__	**Value:** `<zope.interface.declarations.ClassProvides object at 0x2b...`

6.2 Class PythonPostgresWrapper



Wrapper to be used with Python with extended Postgres functionality.

6.2.1 Methods

__delattr__(*...*)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, *dsn*, *model*=`None`, ***kw*)

'dsn' - a RFC-1738-style connection string
'model' - optional instance of model.Model
'kw' - optional keyword arguments passed to create_engine()

Overrides: object.__init__

__new__(*T*, *S*, ...)
Return Value
`a new object with type S, a subtype of T`

__providedBy__(...)

Object Specification Descriptor

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

findDependentTables(*self*, *schema*=`'public'`, *ignoreErrors*=`False`)

Returns a mapping tablename -> [list of referencing table(names)]. ATT: this method is specific to Postgres databases! ATT: This method is limited to a particular schema.

getMapper(*self*, *tablename*, *schema*=`'public'`)

getMappers(*self*, **names*)

registerMapper(*self*, *mapper*, *name*)

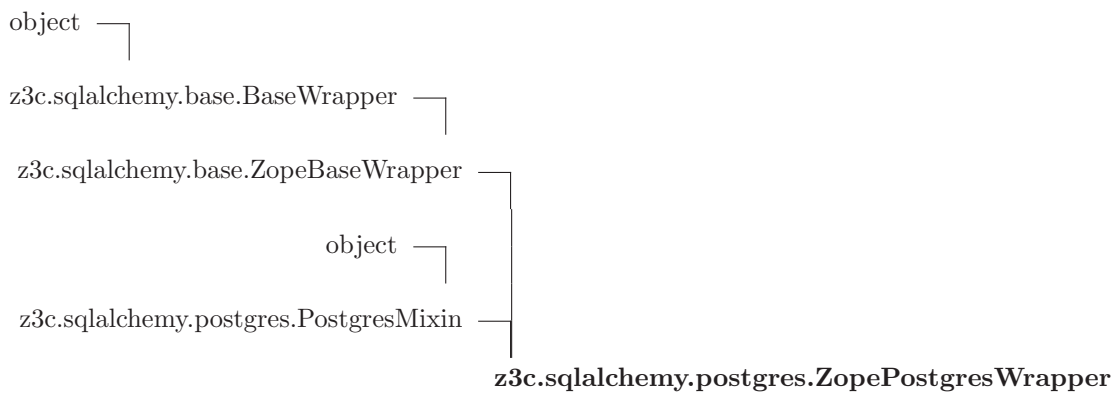
6.2.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`
engine	**Value:** `<property object at 0x2b6e762adf00>`
metadata	**Value:** `<property object at 0x2b6e762ade60>`
model	**Value:** `<property object at 0x2b6e762adf50>`
session	**Value:** `<property object at 0x2b6e762adeb0>`

6.2.3 Class Variables

Name	Description
__implemented__	**Value:** `<implementedBy z3c.sqlalchemy.base.BaseWrapper>`
__provides__	**Value:** `<zope.interface.declarations.ClassProvides object at 0x2b...`

6.3 Class ZopePostgresWrapper



A wrapper to be used from within Zope. It connects the session with the transaction management of Zope.

6.3.1 Methods

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, *dsn*, *model*=`None`, ***kw*)

'dsn' - a RFC-1738-style connection string
'model' - optional instance of model.Model
'kw' - optional keyword arguments passed to create_engine()

Overrides: object.__init__

__new__(*T*, *S*, *...*)
Return Value

```
a new object with type S, a subtype of T
```

__providedBy__(*...*)

Object Specification Descriptor

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

findDependentTables(*self*, *schema*=`'public'`, *ignoreErrors*=`False`)

Returns a mapping tablename -> [list of referencing table(names)]. ATT: this method is specific to Postgres databases! ATT: This method is limited to a particular schema.

getMapper(*self*, *tablename*, *schema*=`'public'`)

getMappers(*self*, **names*)

registerMapper(*self*, *mapper*, *name*)

6.3.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`
engine	**Value:** `<property object at 0x2b6e762adf00>`
metadata	**Value:** `<property object at 0x2b6e762ade60>`
model	**Value:** `<property object at 0x2b6e762adf50>`
session	**Value:** `<property object at 0x2b6e763c72d0>`

6.3.3 Class Variables

Name	Description
__implemented__	**Value:** `<implementedBy z3c.sqlalchemy.base.BaseWrapper>`
__provides__	**Value:** `<zope.interface.declarations.ClassProvides object at 0x2b...`

7 Module z3c.sqlalchemy.test

7.1 Variables

Name	Description
dsn	**Value:** `'postgres://postgres:postgres@cmsdb/Toolbox2Test'`
e	**Value:** `create_engine(dsn)`
metadata	**Value:** `BoundMetaData()`
HierarchyTable	**Value:** `Table('hierarchy',BoundMetaData(),Column('id',PGInteger()...`
m	**Value:** `{'hierarchy': {'name': 'hierarchy', 'autodetect_relations...`
wrapper	**Value:** `<z3c.sqlalchemy.postgres.PythonPostgresWrapper object at ...`
session	**Value:** `wrapper.session`
rows	**Value:** `[<z3c.sqlalchemy.test.HierarchyNode object at 0x2b6e776bc...`
EXT_PASS	**Value:** `<object object at 0x2b6e736ce090>`
NULLTYPE	**Value:** `NullTypeEngine()`
default_metadata	**Value:** `DynamicMetaData()`
func	**Value:** `<sqlalchemy.sql._FunctionGateway object at 0x2b6e7596e2d0>`

7.2 Class HierarchyNode

object

z3c.sqlalchemy.mapper.MappedClassBase

z3c.sqlalchemy.test.HierarchyNode

7.2.1 Methods

__delattr__(*...*)

x.__delattr__('name') <==> del x.name

__getattribute__(*...*)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, **args*, ***kwargs*)

accepts keywords arguments used for initialization of mapped attributes/columns.

Overrides: z3c.sqlalchemy.mapper.MappedClassBase.__init__

__new__(*T*, *S*, *...*)
Return Value
`a new object with type S, a subtype of T`

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

7.2.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

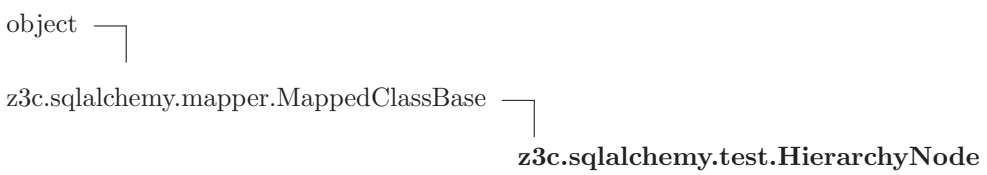
7.2.3 Class Variables

Name	Description
aedat	**Value:** `<sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...`
benutzer	**Value:** `<sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...`
bezeichnung	**Value:** `<sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...`
c	**Value:** `<sqlalchemy.orm.mapper.LOrderedProp object at 0x2b6e776b1...`
children	**Value:** `<sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...`

continued on next page

Name	Description
comment	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
deleted	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
id	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
idhierarchy_share	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
idprodukt	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
linkindex	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
neudat	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
parent	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
parentid	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
pos	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
produktkuerzel	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
show_gattung_in_bauplan	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
sortierung	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
sorting	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
visible	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...

7.3 Class HierarchyNode



7.3.1 Methods

__delattr__(...)

x.__delattr__('name') <==> del x.name

__getattribute__(...)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, **args*, ***kwargs*)

accepts keywords arguments used for initialization of mapped attributes/columns.

Overrides: z3c.sqlalchemy.mapper.MappedClassBase.__init__

__new__(*T*, *S*, ...)
Return Value
`a new object with type S, a subtype of T`

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

__repr__(*x*)

repr(x)

__setattr__(...)

x.__setattr__('name', value) <==> x.name = value

__str__(*x*)

str(x)

7.3.2 Properties

Name	Description
__class__	**Value:** `<attribute '__class__' of 'object' objects>`

7.3.3 Class Variables

Name	Description
aedat	**Value:** `<sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...`

continued on next page

Name	Description
benutzer	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
bezeichnung	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
c	**Value:** <sqlalchemy.orm.mapper.LOrderedProp object at 0x2b6e776b1...
children	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
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parentid	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
pos	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
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sortierung	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
sorting	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...
visible	**Value:** <sqlalchemy.orm.unitofwork.UOWProperty object at 0x2b6e77...

8 Package z3c.sqlalchemy.tests

8.1 Modules

- **testSQLAlchemy**: Tests, tests, tests.....
  (Section 9, p. 36)

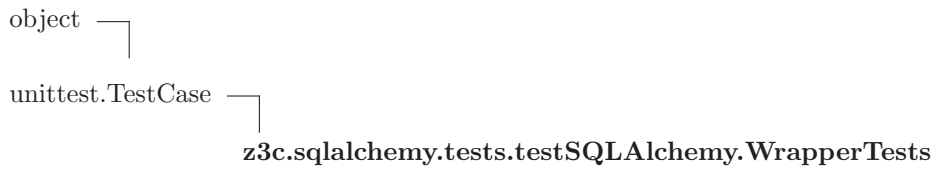
9 Module z3c.sqlalchemy.tests.testSQLAlchemy

Tests, tests, tests.....

9.1 Functions

test_suite()

9.2 Class WrapperTests



9.2.1 Methods

setUp(*self*)
Hook method for setting up the test fixture before exercising it.

Overrides: unittest.TestCase.setUp extit(inherited documentation)

testIFaceBaseWrapper(*self*)

testIFacePythonPostgres(*self*)

testIFaceZopePostgres(*self*)

testSimplePopulation(*self*)

testMapperWithCustomModel(*self*)

testGetMappers(*self*)

testModelWeirdParameters(*self*)

testModelNonExistingTables(*self*)

testWrapperRegistration(*self*)

testWrapperRegistrationFailing(*self*)

__call__(*self*, **args*, ***kwds*)

__delattr__(*...*)

x.__delattr__('name') <==> del x.name

__getattribute__(*...*)

x.__getattribute__('name') <==> x.name

__hash__(*x*)

hash(x)

__init__(*self*, *methodName*=`'runTest'`)

Create an instance of the class that will use the named test method when executed. Raises a ValueError if the instance does not have a method with the specified name.

Overrides: object.__init__

__new__(*T*, *S*, *...*)
Return Value
`a new object with type S, a subtype of T`

__reduce__(*...*)

helper for pickle

__reduce_ex__(*...*)

helper for pickle

__repr__(*self*)
repr(x)

Overrides: object.__repr__ extit(inherited documentation)

__setattr__(*...*)

x.__setattr__('name', value) <==> x.name = value

__str__(*self*)
str(x)

Overrides: object.__str__ extit(inherited documentation)

assertAlmostEqual(*self*, *first*, *second*, *places*=`7`, *msg*=`None`)

Fail if the two objects are unequal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

assertAlmostEquals(*self*, *first*, *second*, *places*=7, *msg*=None)

Fail if the two objects are unequal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

assertEqual(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are unequal as determined by the '==' operator.

assertEquals(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are unequal as determined by the '==' operator.

assertFalse(*self*, *expr*, *msg*=None)

Fail the test if the expression is true.

assertNotAlmostEqual(*self*, *first*, *second*, *places*=7, *msg*=None)

Fail if the two objects are equal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

assertNotAlmostEquals(*self*, *first*, *second*, *places*=7, *msg*=None)

Fail if the two objects are equal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

assertNotEqual(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are equal as determined by the '==' operator.

assertNotEquals(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are equal as determined by the '==' operator.

assertRaises(*self*, *excClass*, *callableObj*, **args*, ***kwargs*)

Fail unless an exception of class excClass is thrown by callableObj when invoked with arguments args and keyword arguments kwargs. If a different type of exception is thrown, it will not be caught, and the test case will be deemed to have suffered an error, exactly as for an unexpected exception.

assertTrue(*self*, *expr*, *msg*=None)

Fail the test unless the expression is true.

assert_(*self*, *expr*, *msg*=None)

Fail the test unless the expression is true.

countTestCases(*self*)

debug(*self*)

Run the test without collecting errors in a TestResult

defaultTestResult(*self*)

fail(*self*, *msg*=None)

Fail immediately, with the given message.

failIf(*self*, *expr*, *msg*=None)

Fail the test if the expression is true.

failIfAlmostEqual(*self*, *first*, *second*, *places*=7, *msg*=None)

Fail if the two objects are equal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

failIfEqual(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are equal as determined by the '==' operator.

failUnless(*self*, *expr*, *msg*=None)

Fail the test unless the expression is true.

failUnlessAlmostEqual(*self*, *first*, *second*, *places*=7, *msg*=None)

Fail if the two objects are unequal as determined by their difference rounded to the given number of decimal places (default 7) and comparing to zero.
Note that decimal places (from zero) are usually not the same as significant digits (measured from the most signficant digit).

failUnlessEqual(*self*, *first*, *second*, *msg*=None)

Fail if the two objects are unequal as determined by the '==' operator.

failUnlessRaises(*self*, *excClass*, *callableObj*, **args*, ***kwargs*)

Fail unless an exception of class excClass is thrown by callableObj when invoked with arguments args and keyword arguments kwargs. If a different type of exception is thrown, it will not be caught, and the test case will be deemed to have suffered an error, exactly as for an unexpected exception.

id(*self*)

run(*self*, *result*=None)

shortDescription(*self*)

Returns a one-line description of the test, or None if no description has been provided.
The default implementation of this method returns the first line of the specified test method's docstring.

tearDown(*self*)

Hook method for deconstructing the test fixture after testing it.

9.2.2 Properties

Name	Description
__class__	**Value:** <attribute '__class__' of 'object' objects>

10 Module z3c.sqlalchemy.util

Some helper methods

10.1 Functions

createSQLAlchemyWrapper(*dsn*, *model*=`None`, *forZope*=`False`, ***kw*)

Convenience method to generate a wrapper for a DSN and a model. This method hides all database related magic from the user. Set 'forZope' to True to obtain a Zope-aware wrapper.

createSAWrapper(*dsn*, *model*=`None`, *forZope*=`False`, ***kw*)

Convenience method to generate a wrapper for a DSN and a model. This method hides all database related magic from the user. Set 'forZope' to True to obtain a Zope-aware wrapper.

registerSQLAlchemyWrapper(*wrapper*, *name*)

deferred registration of the wrapper as named utility

registerSAWrapper(*wrapper*, *name*)

deferred registration of the wrapper as named utility

getSQLAlchemyWrapper(*name*)

return a SQLAlchemyWrapper instance by name

getSAWrapper(*name*)

return a SQLAlchemyWrapper instance by name

allRegisteredSQLAlchemyWrappers()

return a dict containing information for all registered wrappers.

allRegisteredSAWrappers()

return a dict containing information for all registered wrappers.

Index