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Jig Mapper

The Jig Object-Document-Mapper is an implementation of the abstract Active Record Cursor class (cursor). Have a look into it for additional method descriptions.

Namespace: \DB\Jig

File location: lib/db/jig/mapper.php

Instantiation

To use the Jig ODM, create a valid Jig DB Connection (jig#constructor) and follow this example:

```
$mapper = new \DB\Jig\Mapper(\DB\Jig $db, string $file);
```

If you'd like to create a model class, you might like to wrap it up:

```
$f3->set('DB',new DB\Jig('data/'));

class User extends \DB\Jig\Mapper {
    public function __construct() {
        parent::__construct( \Base::instance()->get('DB'), 'users.json' );
    }
}

$user = new User();
$user->load(array('@_id = ?','515c570f28de6'));
// etc.
```

Definition: The primary key of Jig documents is named _id .

Syntax

\$filter

The \$filter argument for Jig accepts the following structure:

```
// array value for parameterized queries
array( string $expr [, string $bindValue1 [, string $bindValue2 [, ...]]] )
```

The \$expr part must contain a valid code expression, where all mapper fields are prefixed by a @-char. You can bind values to them with positional or named tokens. Here is an example:

```
// positional tokens
array('@username = ? and @password = ?','John','acbd18db4cc2f85cedef654fccc4a4d8')
// named tokens
array('@username = :user and @password = :pw',':user'=>'John',':pw'=>'acbd18db4cc2f85
cedef654fccc4a4d8')
```

Important: Jig is a schema-less document mapper, so the fields of a document may vary from one record to another. To create a valid \$expr string, keep in mind to add additional field existence checks to prevent running into weird undefined variable errors. Adding some checks for that can be achieved easiely by adding some isset conditions:

```
array(
   '(isset(@username) && @username == ?) && (isset(@password) && @password = ?)',
   'John','acbd18db4cc2f85cedef654fccc4a4d8'
)
```

Info: You can use all common comparison operators in your condition and a single = works too.

Search

The best way to search in Jig is to use some preg_match conditions:

```
$userList = $user->find(array('(isset(@email) && preg_match(?,@email))','/gmail/'));
// returns all users with an email address that contains GMAIL
// ends with gmail.com => /gmail\.com$/
// starts with john => /^john/
```

The equivalent of a SQL IN operator goes like this:

```
$user->find(array('in_array('_id',array(1,2,3))'));
```

If your document uses an array field, i.e. tags, you can find all posts by tag with just switching the in_array parameters:

```
$post->find(array('isset(@tags) && in_array("fat-free",@tags)'));
```

\$option

The \$option argument for Jig accepts the following structure:

```
array(
    'order' => string $orderClause,
    'limit' => integer $limit,
    'offset' => integer $offset
)

i.e:

array(
    'order' => 'score SORT_DESC, team_name SORT_ASC',
    'limit' => 20,
    'offset' => 0
)
```

Methods

exists

Return TRUE if the given field is defined

```
bool exists( string $key )
```

set

Assign a value to a field

```
scalar|FALSE set( string $key, scalar $val )
```

This class takes advantage of the Magic class (magic) and ArrayAccess interface. It means you can set and get variables with direct access like this:

```
$mapper->foo = 'bar';
$mapper['foo'] = 'bar';
```

get

Retrieve value of field

```
scalar|FALSE get( string $key )
```

clear

Clear value of field

```
NULL clear( string $key )
```

fields

Return field names of the mapper object

```
array fields( )
```

cast

Return fields of the mapper object as an associative array

```
array cast( [ object $obj = NULL ] )
```

token

Convert tokens in string expression to variable names

```
string token( string $str )
```

find

Return records that match a given criteria

```
array|FALSE find( [ array $filter = NULL [, array $options = NULL [, int $ttl = 0 [,
bool $log = TRUE ]]]] )
```

count

Count records that match a given criteria

```
int count( [ array $filter = NULL [, $ttl = 0 ]] )
```

insert

Insert a new record

```
array insert( )
```

update

Update the current record

```
array update( )
```

erase

Delete the current record

```
bool erase( [ array $filter = NULL ] )
```

copyfrom

Hydrate the mapper object using an array

```
NULL copyfrom( array | string $var [, callback $func = NULL ] )
```

This function allows you to hydrate the mapper using an array (or the name of a hive variable containing an array).

\$func is the callback function to apply to the hive array variable:

```
if ($func) $var = $func($var);
```

copyto

Populate hive array variable with mapper fields

```
NULL copyto( string $key )
```

factory

Convert an array to a mapper object

```
protected object factory( string $id, array $row )
```

This *protected* method is used internally by the select method.