

Symfony uses, by default, Propel as the ORM and Creole as the database abstraction layer. More about propel: http://propel.phpdb.org/docs/user_guide/

DATABASES SUPPORTED (Creole)

- MySQL
- SQLServer SOLITE
- PostgreSQL
- Oracle

CONNECT TO DATABASE

propel.ini /myproject/config propel.targetPackage = lib.model propel.packageObjectModel = true propel.project = myproject propel.database = mysql propel.database.createUrl = mysql://localhost/

databases.yml

propel.database.url

/myproject/config

= mysql://localhost/myproject

```
param:
   host:
                 mydataserver
   username:
                mvusername
                 mypassword
   password:
all:
```

propel: class:

prod:

propel:

sfPropelDatabase param:

phptype: mysql hostspec: localhost database: blog username: login password: passwd port: 80 encoding: utf8 persistent: true

You can define distinct settings for the prod, dev, and test environments, or any other environment in your application. This configuration can also be overridden per application, in apps/myapp/config/databases.yml

TRANSACTIONS

```
public function save($con = null){
 $con = Propel::getConnection();
   $con->begin();
   $ret = parent::save($con);
   // update interested users in question table
   $question = $this->getQuestion();
   $interested_users=$question->getInterestedUsers();
   $question->setInterestedUsers($interested_users+1)
   $question->save($con);
   $con->commit();
   return $ret:
 catch (Exception $e){
   $con->rollback();
   throw $e:
```

MODEL CLASSES

The schema is used to build the model classes of the ORM layer through the command-line task: \$ symfony propel-build-model

BASE CLASSES

lib/model/om/

```
BaseComment.php
BaseArticle.php
BaseArticlePeer.php
                      BaseCommentPeer.php
```

Base classes are the ones directly generated from the schema. Never modify them, since every new build of the model will completely erase these files.

DATA MODEL CLASSES

lib/model/

Article.php Comment.php ArticlePeer.php CommentPeer.php

Inherit from the Base ones. When the propel-build-model task is called on an existing model, these classes are not modified. So this is where you can add custom methods and properties to the model objects.

Example: here is the content of the newly created Article.php file: require_once 'model/om/BaseArticle.php' class Article extends BaseArticle{

It inherits all the methods of the BaseArticle class, but a modification in the model will not affect it.

OBJECT CLASSES

Article.php Comment.php

Represent a record in the database. They give access to the columns of a record and to related records.

Object Class Constructor - new

To create a new object: \$myobject = new MyTable();

PEER CLASSES ArticlePeer.php CommentPeer.php mentPeer.php

Contain static methods to operate on the tables. Provide a way to retrieve records from the tables. Their methods usually return an object or a collection of objects of the related object class.

The methods of the Peer classes will be called with a :: (for static method call) instead of the usual -> (for instance method call)

Retrieving Records by Primary Key

```
$myobject=myTablePeer::retrieveByPk(7);
retriving by primary key that consist of more than one column:
```

\$myobject=myTablePeer::retrieveByPk(1, 12);

select multiple objects based on their primary keys:

\$myobject=myTablePeer::retrieveByPKs(\$arrayOfPrimaryKeys);

Retrieving Records with Criteria

```
$c = new Criteria();
$c->add(CommentPeer::AUTHOR, 'Steve');
$c->addAscendingOrderByColumn(CommentPeer::DATE);
$comments = CommentPeer::doSelect($c);
//$comments is an array of objects of class Comment
```

METADATA CLASSES

lib/model/map/

ArticleMapBuilder.php CommentMapBuilder.php Contains metadata information about the table that is needed for the runtime environment.

Creole Column Types

```
BOOLEAN = 1
                   VARBINARY = 13
BIGINT = 2
                   NUMERIC = 14
SMALLINT = 3
                   BLOB = 15
TINYINT = 4
                   CLOB = 16
                   LONGVARCHAR = 17
INTEGER = 5
                   DECIMAL = 18
CHAR = 6
VARCHAR = 7
                   REAL = 19
                   BINARY = 20
TEXT = 17
FLOAT = 8
                   LONGVARBINARY = 21
DOUBLE = 9
                   YEAR = 22
DATE = 10
                   ARR = 23
TIME = 11
                   OTHER = -1
TIMESTAMP = 12
```

Special Date Columns

created at

store a timestamp of the date when the record was created

updated at

updated each time the record itself is updated

Object Class Methods

The accessors and mutators use a camelCase variant of the column names, so the getTitle() method retrieves the value of the title column.

get[MyColumnName]()

Retrieve the column value \$myobject->getMyColu

getByName(\$name)

Mutators:

set[MyColumnName](\$value) To set one field:

setMyColumn("value");

fromArray(\$array)

```
To set several fields at one time:
   object->fromArray(array(
   myColumn1' => 'Some content',
  'myColumn2' => 'Some content'
```

setByName(\$name, \$value)

save the data into the database \$myobject->save();

isNew()

check if an object is new

isModified()

check if an object has been modified and deserves saving \$mvobject->isModified();

delete()

delete records from the database \$mvobject->delete();

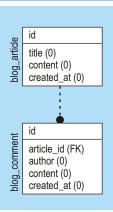
isDeleted()

check if an object is deleted in database

DATABASE SCHEMA (sample)

myproject/config/

table structure



```
blog_article:
         _attributes: { phpName: Article }
        id:
        title:
                varchar(255)
schema.ym
        content: longvarchar
        created_at:
      blog_comment:
        _attributes: { phpName: Comment }
        id:
        article id:
                 varchar(255)
        author:
        content:
                   longvarchar
        created at
```

propel:

```
<?xml version="1.0" encoding="UTF-8"?>
   <database name="propel" defaultIdMethod="native" noXsd="true" package="lib.model">
    <column name="content" type="longvarchar" />
      <column name="created_at" type="timestamp" />
schema.xm
     <reference local="article_id" foreign="id"/>
      </foreign-key>
      <p
     </database>
```