Database Framework

for

PHP Admin

My veritable aim is to have a sit and share my knowledge and the way I code with others.

This template doesn't complete any more the first one cause the first one doesn't extends to other Database such as (SQLite, PgSQL, ORACLE...)

Developing with this template is very easy and eloquent.

1) How to start with PHP MySQL Framework?
2) Several ways to query a database
3) What this framework brings that others didn't?
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1) First let set our server configs

    a) The URL of my server is "localhost"
    b) The user set to manage database is "root"
    c) The password of my user is "localmaster"
    d) The Database I will use is "minichat"
    To make connection with the database it is
    Connection::SetString("srv=localhost;uid=root;pwd=localmaster;db=minichat");
2) To Query database on a specific table like "message"

    List all records of the table

    Here will get all records of our table in a variable name $allsms;
    $sms=((new Table("message"))
            ->Get()
            ->All();

    We can only get the content of all messages in a variable
    $contents=((new Table("message"))
            ->Get(["content"])
            ->All();
    We can get content and when message where sent
    $sms=((new Table("message"))
            ->Get(["content","date_sent"])
            ->All();
    We can choose to get only the first row
    $onerow=((new Table("message"))
            ->Get()
            ->Get(1);
        Or
    $onerow=((new Table("message"))
            ->Get()
            ->First();

Don't try to understand the way I code but the way I want the code to be done

Result of a list of login from a table named personne :
```
 print_r(
        ((new Table("personne"))
        ->Get(["login"])
        ->All()
);
```
-------------------- RESULT -----------------------
```
 Array
 (
     [0] => Array
         (
             [login] => jserge
             [0] => jserge
         )

     [1] => Array
         (
             [login] => man
             [0] => man
         )

     [2] => Array
         (
             [login] => herve
             [0] => herve
         )

 )
```

Query database to find the first rows of our table wich contains herve as login
```
$userherve=((new Table("personne"))
        ->Get(["login","nom","id_personne"])
        ->Where("login","=","herve")
        ->First();
 print_r ($userherve);
```
---------------- RESULT ------------------
```
 Array
 (
     [login] => herve
     [0] => herve
     [nom] => Dogboevi
     [1] => Dogboevi
     [id_personne] => 6
     [2] => 6
 )
```
Query database to find login, nom, id_personne in the records of our table wich
contains "h" in the login
```
$allcontainingH=((new Table("personne"))
        ->Get(["login","nom","id_personne"])
        ->Where("login","like","%h%")
        ->All();
```

---------------- RESULT ------------------

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```
Array
(
    [0] => Array
        (
            [login] => herve
            [0] => herve
            [nom] => Dogboevi
            [1] => Dogboevi
            [id_personne] => 6
            [2] => 6
        )

)
```

Restiction with __And method
Here we'll translate this script
SELECT login,pass FROM personne WHERE login='herve' AND pass='hervevi'

```php
$herve=((new Table("personne"))
      ->Get(["login","pass"])
      ->Where("login","=","herve")
      ->__And("pass","=","hervevi");
      ->First();
```

For more filtering, you can use __And method to filter better
Here we'll translate this script
SELECT login, pass FROM personne WHERE login='herve' AND pass='hervevi' AND prenom='Hervé'

```php
$herve=((new Table("personne"))
      ->Get(["login","pass"])
      ->Where("login","=","herve")
      ->__And("pass","=","hervevi");
      ->__And("prenom","=","Hervé");
      ->First();
```

Using __Or method to find records of table that contains list of some values or some others values.
Using framework to list records of table personne where login ='nado' or name='jserge'

Translating the script
SELECT login, pass FROM personne WHERE login='nado' OR nom='jserge'
```php
$res=((new Table("personne"))
      ->Get([["login","pass"])
      ->Where("login","=","nado")
      ->__Or("nom","=","jserge");
      ->All();
```

Using intervals with between in Where/__Or/__And methods

Translating this script
SELECT login, pass FROM personne WHERE login='nado' OR id_personne BETWEEN 1 AND 4
```php
$res=((new Table("personne"))
      ->Get([["login","pass"])
      ->Where("login","=","nado")
      ->__Or("nom","between",[1,4]);
      ->All();
```

Don't try to understand the way I code but the way I want the code to be done

Using IN as SQL Operand to list records that match an enumerated list
Translating this script
SELECT login, pass FROM personne WHERE login='nado' OR id_personne IN (1, 2, 5, 9)

```
$res=((new Table("personne"))
      ->Get(["login","pass"])
      ->Where("login","=","nado")
      ->__Or("nom","in",[ 1, 2, 5, 9]);
      ->All();
```

We can set the result of a Query to ANY

Translating this script
SELECT login, pass FROM personne WHERE login='nado' OR id_personne IN (SELECT id_personne FROM personne)

```
$res=((new Table("personne"))
      ->Get(["login","pass"])
      ->Where("login","=","nado")
      ->__Or("nom","in", ((new Table("personne"))
                           ->Get("id_personne")
        )
      ->All();
```

How to add/insert rows easily and eloquently with this framework?
Rather than always make insertion script such as
 INSERT INTO personne(nom, prenom, login…) Values('Michel', …)
Very simple is

```
$rowadded=((new Table("personne"))
          ->Add(
            [
              "nom"=>"Somebody",
              "Prenom"=>"Prisca",
              "login"=>"prisk",
              "age"=>"20",
              "pass"=>"priskado",
              "num"=>"23934521"
            ]
          );
```

---------------- BEFORE NEW ROW: Database SIDE -----------------

id_personne	sexe	nom	prenom	age	login	pass	num
1	F	Sowebate	Joséphine	24	jsow	f8d17723970ada4ǎ	92995927
2	M	TALAKI	Serge	23	jserge	ea7b4aab078fb77:	93044371
3	M	MANU	abalutu	20	man	1bfd113c16813d6(	93044371
6	M	Dogboevi	Hervé	19	herve	5a73f2ca7d7e899f	92431923
7	F	AMEYI	Nadège	23	nad	ea7b4aab078fb77:	92373883
9	M	Milan	Jean	23	jmilan	ouvert28	92314567

---------------- Server result after NEW ROW -----------------
print($rowadded);
1 //This value specify that the insertion was successful

---------------- AFTER NEW ROW: Database SIDE -----------------

    Don't try to understand the way I code but the way I want the code to be done

id_personne	sexe	nom	prenom	age	login	pass	num
1	F	Sowebate	Joséphine	24	jsow	f8d17723970ada4ɛ	92995927
2	M	TALAKI	Serge	23	jserge	ea7b4aab078fb77:	93044371
3	M	MANU	abalutu	20	man	1bfd113c16813d6(	93044371
6	M	Dogboevi	Hervé	19	herve	5a73f2ca7d7e899f	92431923
7	F	AMEYI	Nadège	23	nad	ea7b4aab078fb77:	92373883
9	M	Milan	Jean	23	jmilan	ouvert28	92314567
10	M	Somebody	Prisca	20	prisk	priskado	23934521

How to modify/update an existing row(s) easily with this framework?
Here we'll update user having "Nadège" as prenom in our table personne by setting "nadushka" as login and "0022892373883" as num

```
$rowupdated=((new Table("personne"))
            ->Update()
           ->Set(
                [
                  "login"=>"nadushka" ,
                  "num"=>" 0022892373883"
                ]
              )
            ->Where("prenom" ,"=" ,"Nadège")
            ->Apply();
print($rowupdated);
---------------- RESULT After Update ----------
1 //Correct value after on row updated
```

How to delete row(s) in a table using this framework
```
$deletedrow=((new Table("personne"))
              ->Delete()
            ->Where("login" ,"=" ,"prisk")
            ->Apply();
```

Joining table for Querying
  Query for a column of a table referencing in another table

This query `SELECT msg  FROM user_message WHERE user = (SELECT id_personne  FROM personne WHERE id_personne = '6')`
  Is translated easily by

```
$sms=(new Table("user_message"))
          ->Get(["msg"])
        ->Where("user","=", (new Table("personne"))
                          ->Get(["id_personne"])
                          ->Where("id_personne","=","6")
            )
        ->All();
```

Setting output column easily

Ex of query

`SELECT msg AS IdMessage  FROM user_message WHERE user = (SELECT id_personne  FROM personne WHERE id_personne = '6')`

is easily translatable by
```
(new Table("user_message"))
        ->Get(["msg:IdMessage"])
        ->Where("user","=",(new Table("personne"))
```

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```
                                        ->Get(["id_personne"])
                                        ->Where("id_personne","=","6")
                    )
                ->All();
---------- RESULT ----------------
Array
(
    [0] => Array
        (
            [IdMessage] => 34
            [0] => 34
        )

    [1] => Array
        (
            [IdMessage] => 36
            [0] => 36
        )

    [2] => Array
        (
            [IdMessage] => 86
            [0] => 86
        )

)
```

If the aliased name is has blanks inside the name, put the aliased name between quotes
Ex msg:'Id du message'

```
------------------ PHP SIDE ----------------------
print_r((new Table("user_message"))
            ->Get(["msg:'Id du Message'"])
            ->Where("user","=",(new Table("personne"))
                            ->Get(["id_personne"])
                            ->Where("id_personne","=","6")
                )
            ->All());

------------------ RESULT --------------------------
Array
(
    [0] => Array
        (
            [Id du Message] => 34
            [0] => 34
        )

    [1] => Array
        (
            [Id du Message] => 36
            [0] => 36
        )

    [2] => Array
        (
            [Id du Message] => 86
            [0] => 86
        )

)
```

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What does this framework brings that another didn't?

This framework brings eloquence, simplicity in database Queries
This framework also helps you to develop a web site easily and fastly

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