

php 数据库相关函数

1. 简介：php中数据库连接库比较常用的有mysql、mysqli等。mysql库从7.0开始已经正式弃用了。当然，下面还是简单介绍下这个库的使用。

2. 使用mysql连接数据库

(1) `$link = mysql_connect(“数据库服务器地址”，“登录用户名”，“登录密码”)`

(2) 设定连接的客户端环境编码：`mysql_query(‘set names utf8’)`;

(3) 使用数据库：`use 数据库名`

(4) 查询语句

```
$result = mysql_query(“select、delete、update、desc、show tables”);  
while($rec = mysql_fetch_array($result)){  
    echo $res[“id”];  
}
```

(5) 获取查询结果集

```
mysql_fetch_array($result);  
mysql_fetch_row($result);  
mysql_fetch_array($result);
```

(6) 获取查询结果集行数

```
$n = mysql_num_rows($result);
```

(7) 获取查询结果列数

```
$n = mysql_num_fields($result);
```

(8) 获取某个列名

```
$name = mysql_field_name($result, $i);
```

3. 使用mysqli连接数据库

```
include_once "demo.php";  
  
$link = mysqli_connect("localhost","root", "root", "gudashi");  
mysqli_query($link,"set names utf8");  
  
$sql = "create table tab_char_varchar(postcode char(6),name varchar(10))";//数据库表创建操作  
$sql = "alter table tab_char_varchar add okkey text";//数据库表修改操作  
$sql = "insert into tab_char_varchar(postcode,name,okkey) VALUES ('12345','4564564456456','哈哈')";//数据插入操作  
$sql = "delete from tab_char_varchar";//数据删除操作  
$sql = "update tab_char_varchar set postcode='13123323395' where name = '陈伟南'";//数据修改操作  
$sql = "select *from tab_char_varchar";//数据查询操作  
  
$result = mysqli_query($link, $sql);  
  
if($result){  
    // echo json_encode(array("result"=>"数据库操作成功"));  
}else{  
    // echo json_encode(["result"=>"数据库操作失败", "error_msg"=>mysqli_error($link)]);//数据库操作失败原因  
}  
  
$demo = new DataBaseTool();  
$arr = $demo->showAllMessges($result);  
echo json_encode($arr);  
  
mysqli_close($link);
```

```

class DataBaseTool{
    function __construct()
    {
    }

    function showAllMessges($result){
        #遍历所有数据行，将所有数据列(字段)值，显示出来
        $arr = array();
        $col_count = mysqli_num_fields($result);//显示查询结果的列数(字段个数)
        $l = 0;
        while ($row = mysqli_fetch_array($result)){
            $dic = array();
            for ($i = 0; $i < $col_count; $i++){
                $name = mysqli_fetch_field_direct($result, $i);//获取某个字段对象
                $dic[$name->name] = $row[$name->name];
            }
            $arr[$l] = $dic;
            $l ++;
        }
        return $arr;
    }
}

```

```

[
  {
    Id: "1",
    sex: "男",
    favo: "足球,篮球",
    phone: "13123323395",
    name: "陈伟南"
  },
  {
    Id: "3",
    sex: "女",
    favo: "乒乓球",
    phone: "18859663515",
    name: "陈思伊"
  }
]

```

```

include_once "demo.php";

$link = mysqli_connect("localhost","root", "root", "gudashi");
mysqli_query($link,"set names utf8");

$sql = "create table tab_enum_set (
    Id int auto_increment primary key,
    sex enum('男','女'),
    favo set('足球','篮球','乒乓球','羽毛球'),
    phone char(11),
    name varchar(10)
)";//数据库表创建操作

$sql = "insert into tab_enum_set(sex,favo,phone,name) VALUES ('男','篮球,乒乓','13123323395','陈伟南')";//数据插入操作
$sql = "insert into tab_enum_set(sex,favo,phone,name) VALUES (1,15,'13123323395','陈伟南')";//数据插入操作
$sql = "select *from tab_enum_set";//数据查询操作

$result = mysqli_query($link, $sql);

//if($result){
//    echo json_encode(array("result"=>"数据库操作成功"));
//}else{
//    echo json_encode(["result"=>"数据库操作失败", "error_msg"=>mysqli_error($link)]);//数据库操作失败原因
//}

$demo = new DataBaseTool();
$arr = $demo->showAllMessges($result);
echo json_encode($arr);

mysqli_close($link);

```

```

1 <?php
2 /**
3  * Created by PhpStorm.
4  * User: ios31
5  * Date: 2018/2/27
6  * Time: 下午2:42
7  */
8 include_once "demo.php";
9
10 $link = mysqli_connect("localhost","root", "root", "gudashi");
11 mysqli_query($link,"set names utf8");
12
13 $sql = "create table tab_date_time (
14     Id int auto_increment primary key,
15     dt datetime,
16     d date,
17     t time,
18     y year,
19     ts timestamp
20 );";//数据库表创建操作
21
22 $sql = "insert into tab_date_time(dt,d,t,y,ts)
23     VALUES ('2017-08-08 08:08:08','2017-08-08 08:08:08','2017-08-08 08:08:08','2017-08-08 08:08:08','2017-08-08 08:08:08'
24 );";//数据插入操作
25
26 $sql = "select *from tab_date_time";//数据查询操作
27
28 $result = mysqli_query($link, $sql);
29
30
31 //if($result){
32 //    echo json_encode(array("result"=>"数据库操作成功"));
33 //}else{
34 //    echo json_encode(["result"=>"数据库操作失败", "error_msg"=>mysqli_error($link)]);//数据库操作失败原因
35 //}
36
37
38 $demo = new DataBaseTool();
39 $sarr = $demo->showAllMessges($result);
40 echo json_encode($sarr);
41
42 mysqli_close($link);
43

```

```

include_once "demo.php";

$link = mysqli_connect("localhost","root", "root", "gudashi");
mysqli_query($link,"set names utf8");

$sql = "create table tab_enum_set (
    Id int auto increment primary key,
    sex enum('男','女') not null,
    favo set('足球','篮球','乒乓球','羽毛球') default '乒乓球',
    phone char(11) comment '电话号码' unique key,
    name varchar(10)
);";//数据库表创建操作

$sql = "insert into tab_enum_set(id,sex,favo,phone,name) values (null,'男',3,'13123323395','陈伟南')";//数据插入操作(测试unique key、)
$sql = "insert into tab_enum_set(id,sex,phone,name) values (null,'女','18859663515','陈思伊')";//数据插入操作(测试default)
// $sql = "drop table tab_enum_set";//表删除操作
$sql = "select *from tab_enum_set";//数据查询操作

$result = mysqli_query($link, $sql);

//if($result){
//    echo json_encode(array("result"=>"数据库操作成功"));
//}else{
//    echo json_encode(["result"=>"数据库操作失败", "error_msg"=>mysqli_error($link)]);//数据库操作失败原因
//}

$demo = new DataBaseTool();
$sarr = $demo->showAllMessges($result);
echo json_encode($sarr);

mysqli_close($link);

```

unique key:

```
{
    result: "数据库操作失败",
    error_msg: "Duplicate entry '13123323395' for key 'phone'"
}
```

Comment ‘电话号码’

+ 选项

				Id	sex	favo	phone 电话号码	name
<input type="checkbox"/>	 编辑	 复制	 删除	1	男	足球,篮球	13123323395	陈伟南
	<input type="checkbox"/> 全选	选中项:	 编辑	 删除	 导出			

```
1 <?php
2 /** Created by PhpStorm. ...*/
3
4 const DBName = "GuDaShi";
5
6 $link = mysqli_connect("localhost","root", "root", DBName);
7 $link->query("set names utf8");
8
9 $result = mysqli_query($link, "select *from t_emoji");//可以看出, mysql是不区分大小写的
10
11 echo "<table border='1'>";
12 #$row_count = mysqli_num_rows($result);//显示查询结果行数
13 $col_count = mysqli_num_fields($result);//显示查询结果的列数(字段个数)
14
15 echo "<tr>";
16
17 #显示所有数据列名(作为列表标题项)
18 for ($i = 0; $i < $col_count; $i++){
19     $name = mysqli_fetch_field_direct($result, $i);
20     echo "<td>".$name->name."</td>";
21 }
22
23 echo "</tr>";
24
25 #遍历所有数据行, 将所有数据列(字段)值, 显示出来
26 while ($row = mysqli_fetch_array($result)){
27     echo "<tr>";
28
29     for ($i = 0; $i < $col_count; $i++){
30         $name = mysqli_fetch_field_direct($result, $i);//获取某个字段对象
31         echo "<td>".$row[$name->name]."</td>";//取出列字段对象里面的值
32     }
33
34     echo "</tr>";
35 }
36
37 echo "</table>";
38
39 mysqli_close($link);
40
```