```
<?php
1
2
  class Database{
3
       /**
4
5
       * database connection object
        * @var \PDO
6
        */
7
8
       protected $pdo;
9
       /**
10
       * Connect to the database
11
12
       public function construct(\PDO $pdo)
13
14
           $this->pdo = $pdo;
15
           $this->pdo->setAttribute(\PDO::ATTR ERRMODE, \PDO::ERRMODE EXCEPTION);
16
       }
17
18
       /**
19
       * Return the pdo connection
20
21
       public function getPdo()
22
23
           return $this->pdo;
24
       }
25
26
       /**
27
        * Changes a camelCase table or field name to lowercase,
28
        * underscore spaced name
29
30
        * @param string $string camelCase string
31
        * @return string underscore space string
32
33
       protected function camelCaseToUnderscore($string)
34
35
           return strtolower(preg replace('/([a-z])([A-Z])/', '$1 $2', $string));
36
       }
37
38
       /**
39
        * Returns the ID of the last inserted row or sequence value
40
41
        * @param string $param Name of the sequence object from which the ID should
42
  be returned.
        * @return string representing the row ID of the last row that was inserted
43
   into the database.
        */
44
       public function lastInsertId($param = null)
45
       {
46
           return $this->pdo->lastInsertId($param);
47
       }
48
```

```
49
50
        * handler for dynamic CRUD methods
51
52
        * Format for dynamic methods names -
53
        * Create: insertTableName($arrData)
54
        * Retrieve: getTableNameByFieldName($value)
55
        * Update: updateTableNameByFieldName($value, $arrUpdate)
56
        * Delete: deleteTableNameByFieldName($value)
57
58
        * @param
                  string
                              $function
59
        * @param array
                              $arrParams
60
        * @return array|bool
61
       public function call($function, array $params = array())
63
64
           if (! preg match('/^(get|update|insert|delete)(.*)$/', $function,
   $matches)) {
               throw new \BadMethodCallException(\$function.' is an invalid method
66
   Call');
           }
67
68
           if ('insert' == $matches[1]) {
69
               if (! is_array($params[0]) || count($params[0]) < 1) {</pre>
70
                    throw new \InvalidArgumentException('insert values must be an
71
   array');
72
               }
               return $this->insert($this->camelCaseToUnderscore($matches[2]),
73
  $params[0]);
74
           }
75
           list($tableName, $fieldName) = explode('By', $matches[2], 2);
76
           if (! isset($tableName, $fieldName)) {
77
               throw new \BadMethodCallException(\$function.' is an invalid method
78
   Call');
           }
79
80
           if ('update' == $matches[1]) {
81
               if (! is array($params[1]) || count($params[1]) < 1) {</pre>
82
                    throw new \InvalidArgumentException('update fields must be an
83
   array');
               }
84
               return $this->update(
85
                   $this->camelCaseToUnderscore($tableName),
86
                    array($this->camelCaseToUnderscore($fieldName) => $params[0])
88
               );
89
           }
90
91
           //select and delete method
92
```

```
return $this->{$matches[1]}(
93
                $this->camelCaseToUnderscore($tableName),
94
                array($this->camelCaseToUnderscore($fieldName) => $params[0])
95
            );
96
        }
97
98
99
        * Record retrieval method
100
101
         * @param string
                             $tableName name of the table
102
         * @param array
                              $where (key is field name)
103
        * @return array|bool (associative array for single records, multidim array
104
    for multiple records)
        */
105
        public function get($tableName, $whereAnd = array(), $whereOr
106
   array(), $whereLike = array())
        {
107
        $cond
108
       $s=1;
109
        $params = array();
110
       foreach($whereAnd as $key => $val)
111
        {
112
            $cond .= " And ".$key." = :a".$s;
113
            $params['a'.$s] = $val;
114
            $s++;
115
        }
116
        foreach($whereOr as $key => $val)
117
        {
118
            $cond .= " OR ".$key." = :a".$s;
119
            $params['a'.$s] = $val;
120
            $s++;
121
        }
122
        foreach($whereLike as $key => $val)
123
        {
124
            $cond .= " OR ".$key." like '% :a".$s."%'";
125
            $params['a'.$s] = $val;
126
            $s++;
127
128
        $stmt = $this->pdo->prepare("SELECT  $tableName.* FROM $tableName WHERE 1
129
    ".$cond);
            try {
130
                $stmt->execute($params);
131
                $res = $stmt->fetchAll();
132
133
                if (! $res | count($res) != 1) {
134
                   return $res;
135
                }
136
                return $res;
137
            } catch (\PDOException $e) {
138
                throw new \RuntimeException("[".$e->getCode()."] : ".
139
```

```
$e->getMessage());
139...
             }
140
141
        }
142
        public function getAllRecords($tableName, $fields='*', $cond='', $orderBy=''
143
    $limit='')
        {
144
             //echo "SELECT $tableName.$fields FROM $tableName WHERE 1 ".$cond."
145
    ".$orderBy." ".$limit;
             //print "<br>>SELECT $fields FROM $tableName WHERE 1 ".$cond."
146
      .$orderBy." ".$limit;
             $stmt = $this->pdo->prepare("SELECT $fields FROM $tableName WHERE 1
147
     .$cond." ".$orderBy." ".$limit);
             //print "SELECT $fields FROM $tableName WHERE 1 ".$cond." ".$orderBy." "
148
             $stmt->execute();
149
             $rows = $stmt->fetchAll(PDO::FETCH ASSOC);
150
             return $rows;
151
        }
152
153
        public function getRecFrmQry($query)
154
        {
155
             //echo $query;
156
             $stmt = $this->pdo->prepare($query);
157
             $stmt->execute();
158
             $rows = $stmt->fetchAll(PDO::FETCH ASSOC);
159
             return $rows;
160
        }
161
162
        public function getRecFrmQryStr($query)
163
        {
164
             //echo $query;
165
             $stmt = $this->pdo->prepare($query);
166
             $stmt->execute();
167
             return array();
168
169
        public function getQueryCount($tableName, $field, $cond='')
170
171
             $stmt = $this->pdo->prepare("SELECT count($field) as total FROM
172
    $tableName WHERE 1 ".$cond);
             try {
173
                 $stmt->execute();
174
                 $res = $stmt->fetchAll(PDO::FETCH ASSOC);
175
176
                 if (! $res || count($res) != 1) {
177
                    return $res;
178
                 }
179
                 return $res;
180
             } catch (\PDOException $e) {
181
                 throw new \RuntimeException("[".$e->getCode()."] : ".
182
```

```
$e->getMessage());
182...
             }
183
        }
184
185
186
         * Update Method
187
188
                    string $tableName
189
         * @param
                    arrav
                           $set
                                        (associative where key is field name)
         * @param
190
         * @param array
                                       (associative where key is field name)
                            $where
191
         * @return int
                           number of affected rows
192
193
        public function update($tableName, array $set, array $where)
194
195
             $arrSet = array map(
196
                function($value) {
197
                     return $value . '=:' . $value;
198
                },
199
                array_keys($set)
200
              );
201
202
             $stmt = $this->pdo->prepare(
203
                 "UPDATE $tableName SET ". implode(',', $arrSet).' WHERE '.
204
    key($where). '=:'. key($where) . 'Field'
              );
205
206
             foreach ($set as $field => $value) {
207
                 $stmt->bindValue(':'.$field, $value);
208
209
             $stmt->bindValue(':'.key($where) . 'Field', current($where));
210
             try {
211
                 $stmt->execute();
212
213
                 return $stmt->rowCount();
214
             } catch (\PDOException $e) {
215
                 throw new \RuntimeException("[".$e->getCode()."] : ".
216
    $e->getMessage());
             }
217
        }
218
219
220
         * Delete Method
221
222
         * @param string $tableName
223
         * @param array $where
                                       (associative where key is field name)
224
         * @return int
                           number of affected rows
225
         */
226
        public function delete($tableName, array $where)
227
        {
228
             $stmt = $this->pdo->prepare("DELETE FROM $tableName WHERE ".key($where) .
229
```

```
= ?');
229...
             try {
230
                 $stmt->execute(array(current($where)));
231
232
                 return $stmt->rowCount();
233
             } catch (\PDOException $e) {
234
                 throw new \RuntimeException("[".$e->getCode()."] : ".
235
    $e->getMessage());
236
             }
         }
237
238
239
        public function deleteQry($query)
240
241
             $stmt = $this->pdo->prepare($query);
242
             $stmt->execute();
243
         }
244
245
246
247
          * Insert Method
248
249
                    string $tableName
          * @param
250
                                        (data to insert, associative where key is field
          * @param
                    array
                            $arrData
251
    name)
          * @return int
                            number of affected rows
252
253
        public function insert($tableName, array $data)
254
255
             $stmt = $this->pdo->prepare("INSERT INTO $tableName (".implode(',',
256
    array keys($data)).")
                 VALUES (".implode(',', array fill(0, count($data), '?')).")"
257
             );
258
             try{
259
                 $stmt->execute(array_values($data));
260
                 return $stmt->rowCount();
261
             } catch (\PDOException $e) {
262
                 throw new \RuntimeException("[".$e->getCode()."] : ".
263
    $e->getMessage());
             }
264
         }
265
         /**
266
          * Print array Method
267
268
          * @param array
269
270
        public function arprint($array){
271
             print"";
272
             print_r($array);
273
             print"";
274
```

```
275
        }
        /**
276
         * Maker Model Name Method
277
278
279
         * @param
                   Int make id
         * @param
                   Int name id
280
         */
281
        public function getModelMake($makeID,$nameID){
282
                                  self::getRecFrmQry('SELECT veh_make_id,veh_make_name
            $vehMakeData
                             =
283
   FROM tb_vehicle_make WHERE veh_make_id="'.$makeID.'"');
            $vehNameData
                             =
                                  self::getRecFrmQry('SELECT veh_name_id,veh_name FROM
284
   tb_vehicle_name WHERE veh_name_id="'.$nameID.'"');
            return $vehMakeData[0]['veh_make_name'].' '.$vehNameData[0]['veh_name'];
285
        }
286
        /**
287
         * Cache Method
288
289
         * @param string QUERY
290
         * @param Int Time default 0 set
291
         */
292
        public function getCache($sql,$cache_min=0) {
293
          $f = 'cache/'.md5($sq1);
294
          if ( $cache_min!=0 and file_exists($f) and ( (time()-filemtime($f))/60 <
295
   $cache min ) ) {
            $arr = unserialize(file get contents($f));
296
          }
297
          else {
298
            unlink($f);
299
            $arr = self::getRecFrmQry($sql);
300
            if ($cache min!=0) {
301
              $fp = fopen($f,'w');
302
              fwrite($fp, serialize($arr));
303
              fclose($fp);
304
            }
305
          }
306
          return $arr;
307
        }
308
309
310
311
312
   ?>
```