

**ADVANCED PROGRAMMING WEB**  
**MID EXAM**  
**INFORMATION TECHNOLOGY**  
**STATE POLYTECHNIC OF MALANG**



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## 1. Make database with name of motorcycle\_rental

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
<input type="checkbox"/> customer		2	InnoDB	latin1_swedish_ci	16 KB	-
<input type="checkbox"/> motorcycle		2	InnoDB	latin1_swedish_ci	16 KB	-
<b>2 tabel</b>	<b>Jumlah</b>	<b>4</b>	<b>InnoDB</b>	<b>latin1_swedish_ci</b>	<b>32 KB</b>	<b>0 B</b>

Make the column of motorcycle table as follows

#	Nama	Jenis	Penyortiran	Atribut	Kosong	Bawaan	Ekstra	Tindakan
<input type="checkbox"/> 1	<b>id_m</b>	int(11)			Tidak	Tidak ada	AUTO_INCREMENT	
<input type="checkbox"/> 2	<b>name</b>	varchar(50)			Tidak	Tidak ada		
<input type="checkbox"/> 3	<b>merk</b>	varchar(50)			Tidak	Tidak ada		
<input type="checkbox"/> 4	<b>number_plate</b>	varchar(50)			Tidak	Tidak ada		
<input type="checkbox"/> 5	<b>type</b>	varchar(50)			Tidak	Tidak ada		

Make the column of customer table as follows

#	Nama	Jenis	Penyortiran	Atribut	Kosong	Bawaan	Ekstra	Tindakan
<input type="checkbox"/> 1	<b>id_customer</b>	int(11)			Tidak	Tidak ada	AUTO_INCREMENT	
<input type="checkbox"/> 2	<b>name</b>	varchar(30)			Tidak	Tidak ada		
<input type="checkbox"/> 3	<b>phone_number</b>	int(11)			Tidak	Tidak ada		
<input type="checkbox"/> 4	<b>id_m</b>	int(11)			Tidak	Tidak ada		
<input type="checkbox"/> 5	<b>date_start</b>	date			Tidak	Tidak ada		
<input type="checkbox"/> 6	<b>date_back</b>	date			Tidak	Tidak ada		

Fill the motorcycle table

		<b>id_m</b>	<b>name</b>	<b>merk</b>	<b>number_plate</b>	<b>type</b>
<input type="checkbox"/>		1	Vario 150	Honda	AG 2119 K	Matic
<input type="checkbox"/>		2	Beat 125	Honda	AG 1119 L	Matic

Fill the customer table

		<b>id_customer</b>	<b>name</b>	<b>phone_number</b>	<b>id_m</b>	<b>date_start</b>	<b>date_back</b>
<input type="checkbox"/>		1	Ronio Prima	813940592	1	2020-04-13	2020-05-13
<input type="checkbox"/>		2	Sahoby	812390485	2	2020-03-20	2020-04-01

Configuration using the rest server:

```

*/
$config['base_url'] = 'http://localhost/rest_server/';

```

```

*/
$autoload['libraries'] = array('database');
/*

```

```

*/
$autoload['helper'] = array('url');
/*

```

```

√ $db['default'] = array(
    'dsn' => '',
    'hostname' => 'localhost',
    'username' => 'root',
    'password' => '',
    'database' => 'rental_motor',
    'dbdriver' => 'mysqli',
    'dbprefix' => '',

```

Source code :

1. Make new file with name motor.php in controller

```

<?php
defined('BASEPATH') OR exit('No direct script access allowed');

require APPPATH . 'libraries/REST_Controller.php';
require APPPATH . 'libraries/Format.php';

class motor extends REST_Controller
{
    public function __construct()
    {
        parent::__construct();

        $this->load->model('motorcycle_model' , 'motor');
    }

    public function index_get()
    {
        $id = $this->get('id_m');

        if ($id === null) {

            $motor = $this->motor->getmotor();

        } else {

            $motor = $this->motor->getmotor($id);

```

```

    }

    if($motor) {

        $this->response([

            'status' => true,

            'data' => $motor

        ], REST_Controller::HTTP_OK);

    } else {

        $this->response([

            'status' => false,

            'message' => 'id not found'

        ], REST_Controller::HTTP_NOT_FOUND) ;

    }

}

public function index_delete() {

    $id=$this->delete('id_m');

    if ($id===null) {

        $this->response([

            'status' => false,

            'message' => 'provide an id!'

        ], REST_Controller::HTTP_BAD_REQUEST);

    }else {

        if ($this->motor->deletemotor($id)>0) {

            //ok

            $this->response([

```

```

        'status' => true,

        'id' => $id,

        'message' => 'deleted.'

    ], REST_Controller::HTTP_OK);

} else {

    //id not found

    $this->response([

        'status' => false,

        'message' => 'id not found!'

    ], REST_Controller::HTTP_BAD_REQUEST);

}

}

}

}

public function index_post(){

    $data = [

        'name' => $this->post('name'),

        'merk' => $this->post('merk'),

        'number_plate' => $this->post('number_plate'),

        'type' => $this->post('type'),

    ];

    if ($this->motor->createmotor($data) > 0) {

        $this->response([

            'status' => true,

            'message' => 'new motor has been created'

```

```

        ], REST_Controller::HTTP_CREATED);

    }else {

        //id not found

        $this->response([

            'status' => false,

            'message' => 'failade to create new data!'

        ], REST_Controller::HTTP_BAD_REQUEST);

    }
}

public function index_put(){

    $id = $this->put('id_m');

    $data = [

        'name' => $this->put('name'),

        'merk' => $this->put('merk'),

        'number_plate' => $this->put('number_plate'),

        'type' => $this->put('type'),

    ];

    if ($this->motor->updatemotor($data, $id) > 0) {

        $this->response([

            'status' => true,

            'message' => 'new has been updated'

        ], REST_Controller::HTTP_OK);

    }else {

        //id not found

        $this->response([

```

```

        'status' => false,

        'message' => 'failade to update new data!'

    ], REST_Controller::HTTP_BAD_REQUEST);

    }

}

}

?>

```

Make motorcycle\_model.php in models

```

<?php
// defined('BASEPATH') OR exit('No direct script access allowed');
class motorcycle_model extends CI_model{

    public function getmotor($id=null){
        if ($id == null) {
            return $this->db->get ('motorcycle')->result_array();
        }else {
            return $this->db->get_where('motorcycle', ['id_m'=>$id])-
> result_array();
        }
    }

    public function deletemotor($id){
        $this->db->delete('motorcycle',['id_m'=>$id]);
        return $this->db->affected_rows();
    }

    public function createmotor($data){
        $this->db->insert('motorcycle',$data);
        return $this->db->affected_rows();
    }

    public function updatemotor($data,$id){
        $this->db->update('motorcycle',$data,['id_m'=>$id]);
        return $this->db->affected_rows();
    }
}

```

```
}  
}
```

Make the customer.php in controller

```
<?php  
defined('BASEPATH') OR exit('No direct script access allowed');  
  
require APPPATH . 'libraries/REST_Controller.php';  
require APPPATH . 'libraries/Format.php';  
  
class customer extends REST_Controller  
{  
  
    public function __construct()  
    {  
  
        parent::__construct();  
  
        $this->load->model('customer_model' , 'customer');  
  
    }  
  
    public function index_get()  
    {  
  
        $id = $this->get('id_customer');  
  
        if ($id === null) {  
  
            $customer = $this->customer->getcustomer();  
  
        } else {  
  
            $customer = $this->customer->getcustomer($id);  
  
        }  
  
        if($customer) {  
  
            $this->response([  
  
                'status' => true,  
  
                'data' => $customer  
            ], 200);  
        }  
    }  
}
```



```

        ], REST_Controller::HTTP_OK);
    } else {

        $this->response([

            'status' => false,

            'message' => 'id not found'

        ], REST_Controller::HTTP_NOT_FOUND) ;

    }

}

public function index_delete() {

    $id=$this->delete('id_cust');

    if ($id===null) {

        $this->response([

            'status' => false,

            'message' => 'provide an id!'

        ], REST_Controller::HTTP_BAD_REQUEST);

    }else {

        if ($this->customer->deletecustomer($id)>0) {

            //ok

            $this->response([

                'status' =>true,

                'id_customer' => $id,

                'message' => 'deleted.'

            ], REST_Controller::HTTP_OK);
        }
    }
}

```

```

    }else {

        //id not found

        $this->response([

            'status' => false,

            'message' => 'id not found!'

        ], REST_Controller::HTTP_BAD_REQUEST);

    }

}

}

}

public function index_post(){

    $data = [

        'name' => $this->post('name'),

        'phone_number' => $this->post('phone_number'),

        'id_m' => $this->post('id_m'),

        'date_start' => $this->post('date_start'),

        'date_back' => $this->post('date_back'),

    ];

    if ($this->customer->createcustomer($data) > 0) {

        $this->response([

            'status' => true,

            'message' => 'new customer has been created'

        ], REST_Controller::HTTP_CREATED);

    }else {

        //id not found
    }
}

```

```

        $this->response([
            'status' => false,
            'message' => 'failed to create new data!'
        ], REST_Controller::HTTP_BAD_REQUEST);
    }
}

public function index_put(){
    $id = $this->put('id_customer');

    $data = [
        'name' => $this->put('name'),
        'phone_number' => $this->put('phone_number'),
        'id_m' => $this->put('id_m'),
        'date_start' => $this->put('date_start'),
        'date_back' => $this->put('date_back'),
    ];

    if ($this->customer->updatecustomer($data, $id) > 0) {
        $this->response([
            'status' => true,
            'message' => 'new customer has been updated'
        ], REST_Controller::HTTP_OK);
    }else {
        //id not found

        $this->response([
            'status' => false,

```

```

        'message' => 'failed to update new data!'

    ], REST_Controller::HTTP_BAD_REQUEST);

}

}

?>

```

Make customer\_model.php in models

```

<?php
// defined('BASEPATH') OR exit('No direct script access allowed');
class customer_model extends CI_model{

    public function getcustomer($id=null){

        if ($id == null) {

            return $this->db->get ('customer')->result_array();

        }else {

            return $this->db->get_where('customer', ['id_customer'=>$id])->result_array();

        }

    }

    public function deletecustomer($id){

        $this->db->delete('customer',['id_customer'=>$id]);

        return $this->db->affected_rows();

    }

    public function createcustomer($data){

        $this->db->insert('customer',$data);

        return $this->db->affected_rows();

    }

}

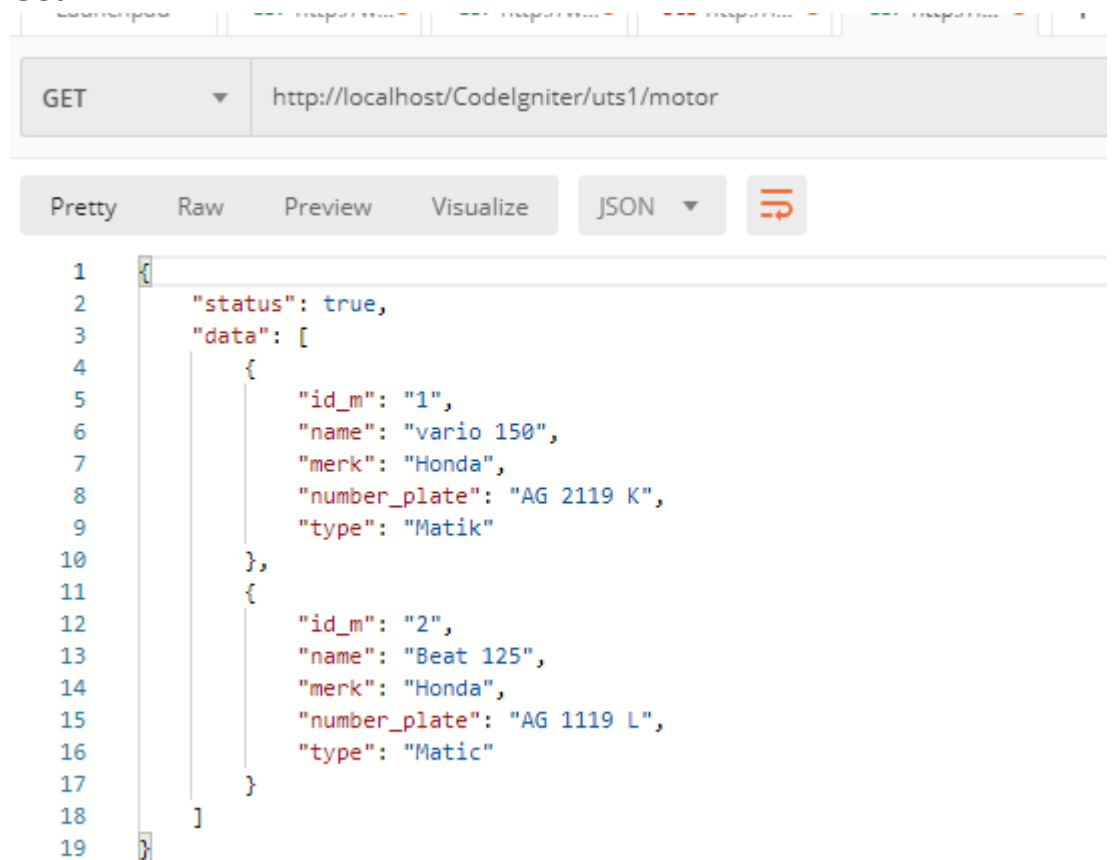
```

```
public function updatecustomer($data,$id){  
  
    $this->db->update('customer',$data,['id_customer'=>$id]);  
  
    return $this->db->affected_rows();  
  
}  
}
```

Next is displaying the result using postman:

Motor:

✓ Get:



✓ Post:

POST http://localhost/Codelgniter/uts1/motor

☐ none
 ☐ form-data
 ☒ x-www-form-urlencoded
 ☐ raw
 ☐ binary
 ☐ GraphQL

	KEY	VALUE	DESCRIPTION
<input type="checkbox"/>	id_m	3	
<input checked="" type="checkbox"/>	name	vario 100	
<input checked="" type="checkbox"/>	merk	Honda	
<input checked="" type="checkbox"/>	number_plate	AG 2367 N	
<input checked="" type="checkbox"/>	type	blabla	
	Key	Value	Description

Body | Cookies | Headers (7) | Test Results
 Status: 201 Created Time: 198ms

Pretty | Raw | Preview | Visualize | JSON ⌵

```

1 {
2   "status": true,
3   "message": "new motor has been created"
4 }
  
```

+ Options

		id_m	name	merk	number_plate	type
<input type="checkbox"/>	Edit Copy Delete	1	vario 150	Honda	AG 2119 K	Matik
<input type="checkbox"/>	Edit Copy Delete	2	Beat 125	Honda	AG 1119 L	Matik
<input type="checkbox"/>	Edit Copy Delete	3	vario 100	Honda	AG 2367 N	blabla

Check all | With selected: Edit Copy Delete Export

✓ Updates:

PUT

http://localhost/CodeIgniter/uts1/motor

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	id_m	3	
<input checked="" type="checkbox"/>	name	vario 100	
<input checked="" type="checkbox"/>	merk	Honda	
<input checked="" type="checkbox"/>	number_plate	AG 2367 N	
<input checked="" type="checkbox"/>	type	Auto	
	Key	Value	Description

Body

Cookies

Headers (7)

Test Results

Status: 200 OK

Time: 3

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "status": true,
3   "message": "new has been updated"
4 }
```

Show all

Number of rows: 25

Filter rows: Search this table

Sort by

+ Options

id\_m

name

merk

number\_plate

type

<input type="checkbox"/>	Edit	Copy	Delete	1	vario 150	Honda	AG 2119 K	Matik
<input type="checkbox"/>	Edit	Copy	Delete	2	Beat 125	Honda	AG 1119 L	Matic
<input type="checkbox"/>	Edit	Copy	Delete	3	vario 100	Honda	AG 2367 N	Auto

Check all

With selected:

Edit

Copy

Delete

Export

✓ Delete:

DELETE

http://localhost/CodeIgniter/uts1/motor

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	id_m	3	
<input type="checkbox"/>	name	vario 100	
<input type="checkbox"/>	merk	Honda	
<input type="checkbox"/>	number_plate	AG 2367 N	
<input type="checkbox"/>	type	Auto	
	Key	Value	Description

Body

Cookies

Headers (7)

Test Results

Status: 200 OKTime: 316ms

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "status": true,
3   "id": "3",
4   "message": "deleted."
5 }
```

Customer:



➤ Get:

```
GET http://localhost/CodeIgniter/uts1/customer

Pretty Raw Preview Visualize JSON

1 {
2   "status": true,
3   "data": [
4     {
5       "id_customer": "1",
6       "name": "Ronio Prima",
7       "phone_number": "813940592",
8       "id_m": "1",
9       "date_start": "2020-04-13",
10      "date_back": "2020-05-13"
11    },
12    {
13      "id_customer": "2",
14      "name": "Sahoby Mamy",
15      "phone_number": "812390485",
16      "id_m": "2",
17      "date_start": "2020-03-20",
18      "date_back": "2020-04-01"
19    }
20  ]
21 }
```

➤ Post:

POST http://localhost/CodeIgniter/uts1/customer

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	name	Abraham Alier	
<input checked="" type="checkbox"/>	phone_number	0987654572	
<input checked="" type="checkbox"/>	id_m	2	
<input checked="" type="checkbox"/>	date_start	2020-06-14	
<input checked="" type="checkbox"/>	date_back	2020-07-14...	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 201 Created Time: 275

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": true,
3   "message": "new customer has been created"
4 }
```

+ Options

	id_customer	name	phone_number	id_m	date_start	date_back
<input type="checkbox"/> Edit Copy Delete	1	Ronio Prima	813940592	1	2020-04-13	2020-05-13
<input type="checkbox"/> Edit Copy Delete	2	Sahoby Mamy	812390485	2	2020-03-20	2020-04-01
<input type="checkbox"/> Edit Copy Delete	3	Abraham Alier	987654572	2	2020-06-14	2020-07-14

Check all With selected: Edit Copy Delete Export

➤ Update:

PUT http://localhost/CodeIgniter/uts1/customer

none form-data x-www-form-urlencoded raw binary GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	id_customer	5	
<input checked="" type="checkbox"/>	name	Silami	
<input checked="" type="checkbox"/>	phone_number	98746522	
<input checked="" type="checkbox"/>	id_m	1	
<input checked="" type="checkbox"/>	date_start	2020-06-14	
<input checked="" type="checkbox"/>	date_back	2020-12-14	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 278ms

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": true,
3   "message": "new customer has been updated"
}
```

from:

+ Options								
		id_customer	name	phone_number	id_m	date_start	date_back	
<input type="checkbox"/>	Edit Copy Delete	1	Ronio Prima	813940592	1	2020-04-13	2020-05-13	
<input type="checkbox"/>	Edit Copy Delete	2	Sahoby Mamy	812390485	2	2020-03-20	2020-04-01	
<input type="checkbox"/>	Edit Copy Delete	3		0	0	0000-00-00	0000-00-00	
<input type="checkbox"/>	Edit Copy Delete	5	Fenohasina	98746522	1	2020-06-14	2020-12-14	

to:

+ Options								
		id_customer	name	phone_number	id_m	date_start	date_back	
<input type="checkbox"/>	Edit Copy Delete	1	Ronio Prima	813940592	1	2020-04-13	2020-05-13	
<input type="checkbox"/>	Edit Copy Delete	2	Sahoby Mamy	812390485	2	2020-03-20	2020-04-01	
<input type="checkbox"/>	Edit Copy Delete	3		0	0	0000-00-00	0000-00-00	
<input type="checkbox"/>	Edit Copy Delete	5		0	0	0000-00-00	0000-00-00	
<input type="checkbox"/>	Edit Copy Delete	6	Silami	98746522	1	2020-06-14	2020-12-14	

➤ Delete:

From:



