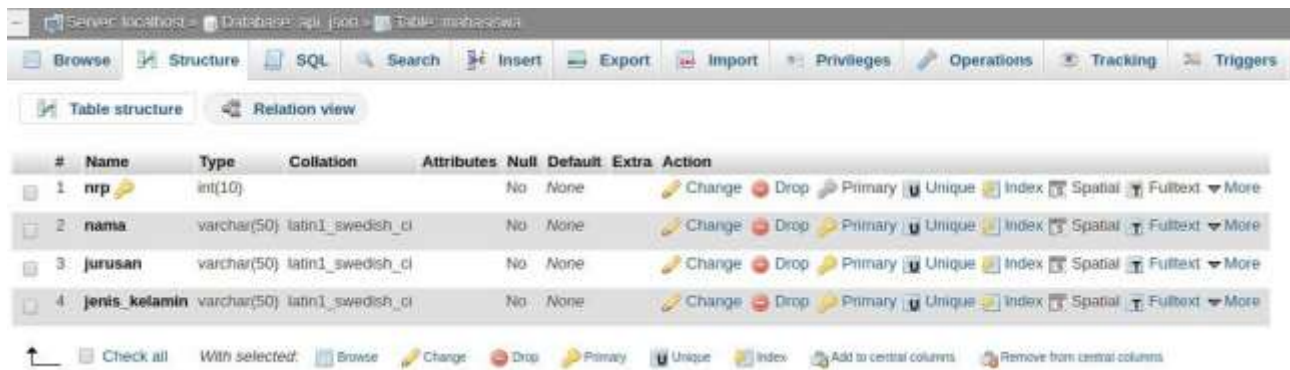


# API – JSON

JSON merupakan salah satu alternative selain XML sebagai format pertukaran data yang banyak digunakan dalam aplikasi web, JSON berasal dari bahasa pemrograman JavaScript yang mempresentasikan struktur data sederhana dan array yang di sebut Objek

- Pertama buat database api\_json dengan tabel mahasiswa dengan struktur seperti berikut:



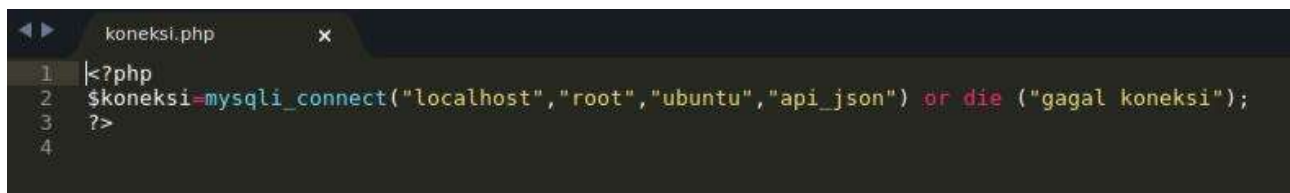
The screenshot shows the MySQL Table Structure for the 'mahasiswa' table. The table has four columns: 'nrp' (int(10)), 'nama' (varchar(50)), 'jurusan' (varchar(50)), and 'jenis\_kelamin' (varchar(50)). All columns are set to 'No' for Null, 'None' for Default, and 'Primary' for Extra. The 'Action' column shows icons for Change, Drop, Primary, Unique, Index, Spatial, Fulltext, and More.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	nrp	int(10)			No	None	Primary	Change Drop Primary Unique Index Spatial Fulltext More
2	nama	varchar(50)	latin1_swedish_ci		No	None	Primary	Change Drop Primary Unique Index Spatial Fulltext More
3	jurusan	varchar(50)	latin1_swedish_ci		No	None	Primary	Change Drop Primary Unique Index Spatial Fulltext More
4	jenis_kelamin	varchar(50)	latin1_swedish_ci		No	None	Primary	Change Drop Primary Unique Index Spatial Fulltext More

- Buat 3 file baru yaitu koneksi.php, index.php, parsing.php.



- koneksi.php



```
1 <?php
2 $koneksi=mysqli_connect("localhost","root","ubuntu","api_json") or die ("gagal koneksi");
3 ?>
4
```

- index.php

```
1 <html
2 <body>
3     <form action="" method="POST" enctype="multipart/form-data">
4         <div align="center">
5             <h2>Input Data Mahasiswa</h2>
6             <table border="0" cellspacing="3px" align="center">
7                 <tr>
8                     <td>NRP</td>
9                     <td>
10                        <input type="number" name="nrp"></input>
11                    </td>
12                </tr>
13                <tr>
14                    <td>Nama Mahasiswa</td>
15                    <td>
16                        <input type="text" name="nama"></input>
17                    </td>
18                </tr>
19                <tr>
20                    <td>Jurusan</td>
21                    <td>
22                        <input type="text" name="jurusan" ></input>
23                    </td>
24                </tr>
25                <tr>
26                    <td>Jenis Kelamin </td>
27                    <td>
28                        <input type="radio" name="jenis_kelamin" value="Pria" checked>Laki-Laki
29                        <input type="radio" name="jenis_kelamin" value="Perempuan" checked>Perempuan
30                    </td>
31                </tr>
32                <tr>
33                    <td>&nbsp;</td>
34                    <td>
35                        <input type="submit" name="submit" value="SAVE">
36                        <input type="reset" name="reset" value="RESET"></form>
37                        <form action="parsing.php" method="post" enctype="multipart/form-data">
38                            <input type="submit" name="submit" value="LOAD">
39                            <input type="file" name="file"></td></form>
40                    </td>
41                </tr>
42            </table>
43        </div>
44    </body>
45 </html>
```

```
43 |
44 <?php
45 error_reporting(0);
46 include 'koneksi.php';
47
48 $nrp = $_POST['nrp'];
49 $nama = $_POST['nama'];
50 $jurusan = $_POST['jurusan'];
51 $jenis_kelamin = $_POST['jenis_kelamin'];
52
53 if ($nrp != "" && $nama != "" && $jurusan != "" && $jenis_kelamin != "") {
54     $query = "insert into mahasiswa(nrp,nama,jurusan,jenis_kelamin) values ('$nrp','$nama','$jurusan','$jenis_kelamin')";
55     mysqli_query($koneksi,$query);
56 }
57
58
59 $tab_name = "api_json";
60 $query = "select * from mahasiswa";
61 $result = mysqli_query($koneksi,$query);
62 $field_count = mysqli_num_fields($result);
63 $sitejson = array();
64
65 while($data=mysqli_fetch_array($result)){
66     $sitejson[] = array(
67         'nrp' => $data['nrp'],
68         'nama' => $data['nama'],
69         'jurusan' => $data['jurusan'],
70         'jenis_kelamin' => $data['jenis_kelamin']);
71 }
72 $file = fopen('mahasiswa.json','w');
73 fwrite($file,json_encode($sitejson));
74 fclose($file);
75
76 ?>
```

- parsing.php

```
1 <?php
2 $file = $_FILES['file']['tmp_name'];
3 //print_r($file);
4
5 $string = file_get_contents($file);
6 $json = json_decode($string, TRUE);
7
8 $jsonIterator = new RecursiveIteratorIterator(
9     new RecursiveArrayIterator(json_decode($string, TRUE)),
10     RecursiveIteratorIterator::SELF_FIRST);
11
12
13 <table border="1">
14 <tr style="background:green;color:white">
15 <td>NRP</td>
16 <td>NAMA</td>
17 <td>JURUSAN</td>
18 <td>JENIS KELAMIN</td>
19 </tr>
20
21 <?php
22 // $jsonArray=count($json);
23 // for($i=0;$i<$jsonArray;$i++) {
24 foreach ($json as $key => $value) {
25
26 <tr>
27 <td>?php echo $value['nrp']; ?</td>
28 <td>?php echo $value['nama']; ?</td>
29 <td>?php echo $value['jurusan']; ?</td>
30 <td>?php echo $value['jenis_kelamin']; ?</td>
31 </tr>
32
33 <?php
34 }
35 echo "</table>";
36 //print_r(count($json[0]));
37 ?>
```

index.php dijalankan di web browser

## Input Data Mahasiswa

NRP	<input type="text"/>
Nama Mahasiswa	<input type="text"/>
Jurusan	<input type="text"/>
Jenis Kelamin	<input type="radio"/> Laki-Laki <input checked="" type="radio"/> Perempuan
<input type="button" value="SAVE"/> <input type="button" value="RESET"/>	
<input type="button" value="LOAD"/> <input type="button" value="Choose File"/> No file chosen	

Data file \*.json yang dipilih di LOAD berbentuk table

UPN   localhost/api_json/parsing.php			
NRP	NAMA	JURUSAN	JENIS KELAMIN
2103147011	Erik	TI	Pria
2103147000	Dodik	TI	Pria

<https://github.com/mahannani/json-fix.git>