

```
1  <?php
2      mysql_connect("localhost","root","");
3      mysql_select_db("fuzzy_db");
4  ?>
5  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "
http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
6  <html xmlns="http://www.w3.org/1999/xhtml">
7  <head>
8  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"
/>
9  <meta name="description" content="Fuzzy Database">
10 <meta name="keywords" content="fuzzy, database">
11 <meta name="author" content="Endang Supriyati">
12 <title>Fuzzy Database</title>
13 <style>
14     body {
15         font-family:Verdana;
16         font-size:12px;
17     }
18     .ratatengah {text-align:center;}
19     .ratakanan {text-align:right;}
20     .bg1, .bg2, .bg3 {background-color:#CCFFCC;}
21     .bg6, .bg7, .bg8 {background-color:#FFFFCC;}
22     th, td {padding:.3em .5em;}
23     th {background-color:#EEEEEE;}
24 </style>
25 </head>
26
27 <body>
28 <?php
29
30     function cek_selected($cek,$value) {
31         if($cek==$value) echo "selected=\"selected\"";
32     }
33
34     function format_desimal($nn,$des) {
35         return number_format($nn,$des,"",".");
36     }
37     function get_namakeompok($id_kelompok) {
38         $sql ="SELECT * FROM tb_kelompok WHERE id='$id_kelompok'";
39         $hasil =mysql_query($sql);
40         $row=mysql_fetch_assoc($hasil);
41         return $row['nama_kelompok'];
42     }
43
44     function derajat_keanggotaan($nilai, $bawah, $tengah, $atas)
45     {
46         $selisih=$atas-$bawah;
47
48         if($nilai<$bawah) $DA=0;
49         elseif (($nilai>=$bawah) && ($nilai<=$tengah))
50             if($bawah<=0) $DA=1;
51             else $DA=($nilai-$bawah) / ($tengah-$bawah);
52
53         elseif(($nilai>$tengah) && ($nilai<=$atas)) $DA=($atas-$nilai
54 ) / ($atas-$tengah);
55         elseif($nilai>$atas) $DA=0;
56         return $DA;
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57
58     }
59
60     $ux[][] = NULL; //variabel utk data derajat keanggotaan
61
62     $kelompok =isset($_GET['kelompok'])?$_GET['kelompok']:1;
63     $sql_kelompok ="SELECT * FROM tb_kelompok WHERE id='$kelompok'";
64     $hasil_kelompok =mysql_query($sql_kelompok);
65     $row_kelompok =mysql_fetch_assoc($hasil_kelompok);
66
67     $sql ="SELECT * FROM tb_kriteria";
68     $hasil =mysql_query($sql);
69     $jumkol =mysql_num_rows($hasil);
70
71     ?>
72
73     <h2>Data Karyawan & Derajat Keanggotaan</h2>
74     <table border="1" cellpadding="3" style="border-collapse:
collapse;">
75         <tr>
76             <th width="17" rowspan="2"><strong>ID</strong></th>
77             <th width="100" rowspan="2"><strong>Nama</strong></th>
78             <th width="28" rowspan="2"><strong>Usia</strong></th>
79             <th width="37" rowspan="2"><strong>Masa Kerja</strong></th>
80             <th width="78" rowspan="2"><strong>Gaji</strong></th>
81
82             <th colspan="3"><strong>(&#956;[x]) <?php echo
get_namakekelompok(1);?></strong></th>
83             <th colspan="2"><strong>(&#956;[x]) <?php echo
get_namakekelompok(2);?></strong></th>
84             <th colspan="3"><strong>(&#956;[x]) <?php echo
get_namakekelompok(3);?></strong></th>
85
86         </tr>
87     <tr>
88     <?php
89
90
91         $sql ="SELECT * FROM tb_kriteria WHERE kelompok='1'";
92         $hasil =mysql_query($sql);
93         while($row=mysql_fetch_assoc($hasil))
94         {
95             ?>
96             <th><strong><?php echo $row['nama_kriteria'];?></strong></th>
97     <?php
98         }
99     ?>
100     <?php
101         $sql ="SELECT * FROM tb_kriteria WHERE kelompok='2'";
102         $hasil =mysql_query($sql);
103         while($row=mysql_fetch_assoc($hasil))
104         {
105             ?>
106             <th><strong><?php echo $row['nama_kriteria'];?></strong></th>
107     <?php
108         }
109     ?>
110     <?php
111         $sql ="SELECT * FROM tb_kriteria WHERE kelompok='3'";

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112     $hasil =mysql_query($sql);
113     while($row=mysql_fetch_assoc($hasil))
114     {
115         ?>
116         <th><strong><?php echo $row['nama_kriteria'];?></strong></th>
117     <?php
118         }
119     ?>
120 </tr>
121
122     <?php
123     $sql = "SELECT * FROM tb_emp";
124     $hasil =mysql_query($sql);
125     while($row=mysql_fetch_assoc($hasil))
126     {
127         ?>
128
129         <tr>
130             <td><?php echo $row['id']; ?></td>
131             <td><?php echo $row['nama']; ?></td>
132             <td class="ratakanan"><?php echo $row['usia']; ?></td>
133             <td class="ratakanan"><?php echo $row['masakerja']; ?></td>
134             <td class="ratakanan"><?php echo format_desimal($row['gaji'],
135 2); ?></td>
136         <?php
137         $sql2 = "SELECT * FROM tb_kriteria WHERE kelompok='1'";
138         $hasil2 =mysql_query($sql2);
139         while($row2=mysql_fetch_assoc($hasil2))
140         {
141             $u = derajat_keanggotaan($row['usia'], $row2['bawah'],
142 $row2['tengah'], $row2['atas']);
143             $ux[$row['id']][$row2['id']] = $u;
144             $bg = "ratakanan";
145             if(isset($_GET['usia']) && ($row2['id']==$_GET['usia']))
146             $bg .= " bg".$row2['id'];
147         ?>
148         <td class="<?php echo $bg;?>"><?php echo format_desimal(
149 $u,2);?></td>
150         <?php
151         }
152     ?>
153     <?php
154     $sql2 = "SELECT * FROM tb_kriteria WHERE kelompok='2'";
155     $hasil2 =mysql_query($sql2);
156     while($row2=mysql_fetch_assoc($hasil2))
157     {
158         $u = derajat_keanggotaan($row['masakerja'], $row2['bawah']
159 ], $row2['tengah'], $row2['atas']);
160         $ux[$row['id']][$row2['id']] = $u;
161     ?>
162     <td class="ratakanan"><?php echo format_desimal($u,2,"",
163 ".");?></td>
164     <?php
165     }
166 ?>
167 <?php
168 $sql2 = "SELECT * FROM tb_kriteria WHERE kelompok='3'";
169 $hasil2 =mysql_query($sql2);
170 while($row2=mysql_fetch_assoc($hasil2))

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165         {
166             $u = derajat_keanggotaan($row['gaji'], $row2['bawah'],
167                                     $row2['tengah'], $row2['atas']);
168             $ux[$row['id']][$row2['id']] = $u;
169             $bg = "ratakanan";
170             if(isset($_GET['gaji']) && ($row2['id']==$_GET['gaji']))
171                 $bg .= " bg". $row2['id'];
172             ?>
173             <td class="<?php echo $bg;?>"><?php echo format_desimal(
174                 $u,2);?></td>
175             <?php
176             }
177         ?>
178     </tr>
179     <?php
180     }
181 </table>
182 <br />
183
184 <h2><strong>QUERY</strong></h2>
185 <form action="" method="GET">
186     <select name="usia">
187         <option value="1" <?php if(isset($_GET['usia']))
188             cek_selected($_GET['usia'],1); ?>>Usia Muda</option>
189         <option value="2" <?php if(isset($_GET['usia']))
190             cek_selected($_GET['usia'],2); ?>>Usia Parobaya</option>
191         <option value="3" <?php if(isset($_GET['usia']))
192             cek_selected($_GET['usia'],3); ?>>Usia Tua</option>
193     </select>
194     <select name="opr">
195         <option value="OR" <?php if(isset($_GET['opr']))
196             cek_selected($_GET['opr'], "OR"); ?>>OR</option>
197         <option value="AND" <?php if(isset($_GET['opr']))
198             cek_selected($_GET['opr'], "AND"); ?>>AND</option>
199     </select>
200     <select name="gaji">
201         <option value="6" <?php if(isset($_GET['gaji']))
202             cek_selected($_GET['gaji'],6); ?>>Gaji Rendah</option>
203         <option value="7" <?php if(isset($_GET['gaji']))
204             cek_selected($_GET['gaji'],7); ?>>Gaji Sedang</option>
205         <option value="8" <?php if(isset($_GET['gaji']))
206             cek_selected($_GET['gaji'],8); ?>>Gaji Tinggi</option>
207     </select>
208     <input type="submit" value="Submit">
209 </form>
210
211 <br />
212 <br />
213
214 <h2><strong>HASIL</strong></h2>
215 <?php
216
217     if (isset($_GET['opr'])) {
218         $opr = $_GET['opr'];
219         $usia = $_GET['usia'];
220         $gaji = $_GET['gaji'];

```

```
213
214
215     $sql = "SELECT id,nama FROM tb_emp";
216     $hasil =mysql_query($sql);
217
218     while($row=mysql_fetch_assoc($hasil)) {
219
220         //ambil data derajat keanggotaan
221         $c1 = $ux[$row['id']][$usia];
222         $c2 = $ux[$row['id']][$gaji];
223
224         //tentukan operasi
225         if ($opr=="OR") $cc= max($c1,$c2);
226         else $cc= min($c1,$c2);
227
228         //tampilkan
229         if ($cc > 0) echo $row['nama']." : [".format_desimal($cc,2).
230     "]<br />";
231     } //end while
232
233     ?>
234
235
236 </body>
237 </html>
```