Jay Malde Databse & PHP Test

DB Seeder for Panel Numbers

Objective:

1. Create an Array of Three digit numbers from 000 to 999 based on following parameters

1.1 (If Number = xyz; then x <= y <= z). First digit of each number is less than or equal to Second Digit and Second Digit is Less than or Equal to thrid digit.

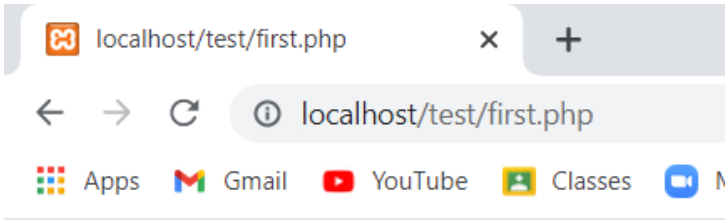
1.2 Priority of numbers is 1, 2, 3, 4, 5, 6, 7, 8, 9.

Code : -

```
$numVal =array();
for ($i = 000; $i <= 999; $i+=1)
{
   $val="";
   $val = (string)$i;
   if($val[0]<=$val[1] && $val[1]<=$val[2]){
      $numVal[]=$i;
   }
}
sort($numVal);
# echo count($numVal);
if(count($numVal)>0)
{
   foreach ($numVal as $n)
   {
      echo "$n <br>";
   }
}
else{
   echo "Empty Array";
}
```

Jay Malde Databse & PHP Test

Output : -



111
112
113
114
115
116
117
118
119
122
123
124
125
126
127
128
129
133
134
135
136
137
138
139
144
145
146
147
148
149
155
156
157
158
159
166
167
168
169

Jay Malde Databse & PHP Test

2. Classify each number in three classes based on occurances of digit as per following criteria and append the index to array accordingly

2.1 If no digit is repeating, The group name is "Single"

2.2 If any two consecutive digits are same, the group name is "Double"

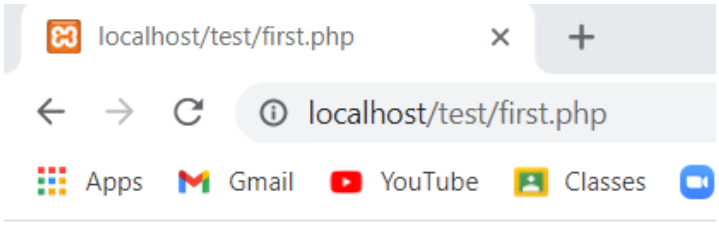
2.3 If all Digits are same, the group name is "Triple"

Code : -

```
$classVal=array();
function array_push_assoc($array, $key, $value){
   return $key = $value;
}
foreach($numVal as $i)
{
   $val="";
   $val = (string)$i;
   if($val[0]==$val[1] && $val[1]==$val[2] && $val[0]==$val[2])
   {
      $classVal[$i]=array_push_assoc($classVal,$i,"triple");
   }elseif($val[0]==$val[1] || $val[1]==$val[2] || $val[0]==$val[2])
   {
      $classVal[$i]=array_push_assoc($classVal,$i,"double");
   }elseif($val[0]!=$val[1] && $val[1]!=$val[2] && $val[0]!=$val[2]){
      $classVal[$i]=array_push_assoc($classVal,$i,"single");
   }
}
foreach ($classVal as $key => $value)
{
   echo "$key => $value <br>";
}
```

Jay Malde Databse & PHP Test

Output : -



111 => triple
112 => double
113 => double
114 => double
115 => double
116 => double
117 => double
118 => double
119 => double
122 => double
123 => single
124 => single
125 => single
126 => single
127 => single
128 => single
129 => single
133 => double
134 => single
135 => single
136 => single
137 => single
138 => single
139 => single
144 => double
145 => single
146 => single
147 => single
148 => single
149 => single
155 => double
156 => single
157 => single
158 => single
159 => single
166 => double
167 => single
168 => single
169 => single

Jay Malde Databse & PHP Test

3. Group Numbers based on the last digit of there individual sum of all digits and append index to array accordingly.

Example:

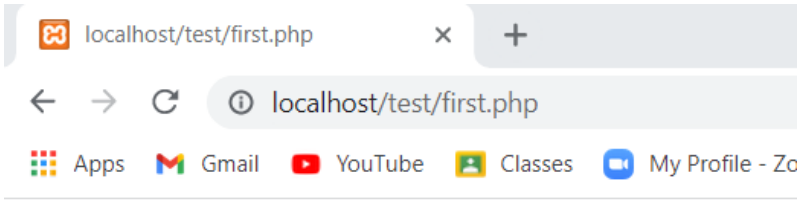
if Number is 567 then individual sum is 18 and group will be the last digit i.e 8.

Code : -

```
$sum=array();
foreach($numVal as $i)
{
   $val="";
   $val = (string)$i;
   $sum =(int)$val[0]+(int)$val[1]+(int)$val[2];
   $sumVal[]=$sum%10;
}

//Combining into 1 multidimensional array
function create_mul_array($num,$class,$group)
{
   return array("number" => $num,"class" => $class,"group" => $group);
};
$final=array();
for($i=0;$i<count($numVal);$i+=1){
   $index = array_keys($classVal);
   $final[]=create_mul_array($numVal[$i],$classVal[$index[$i]],$sumVal[$i]);
}
// print_r($final);
$keys = array_keys($final);
for($i = 0; $i < count($final); $i++) {
   echo "Array(<br>";
   foreach($final[$keys[$i]] as $key => $value) {
      echo $key . " : " . $value . "<br>";
```

```
    }
    echo ")<br>";
}
```

Output : -



Array(
number : 111
class : triple
group : 3
)
Array(
number : 112
class : double
group : 4
)
Array(
number : 113
class : double
group : 5
)
Array(
number : 114
class : double
group : 6
)
Array(
number : 115
class : double
group : 7
)
Array(
number : 116
class : double
group : 8
)
Array(
number : 117
class : double
group : 9
)
Array(
number : 118
class : double
group : 0

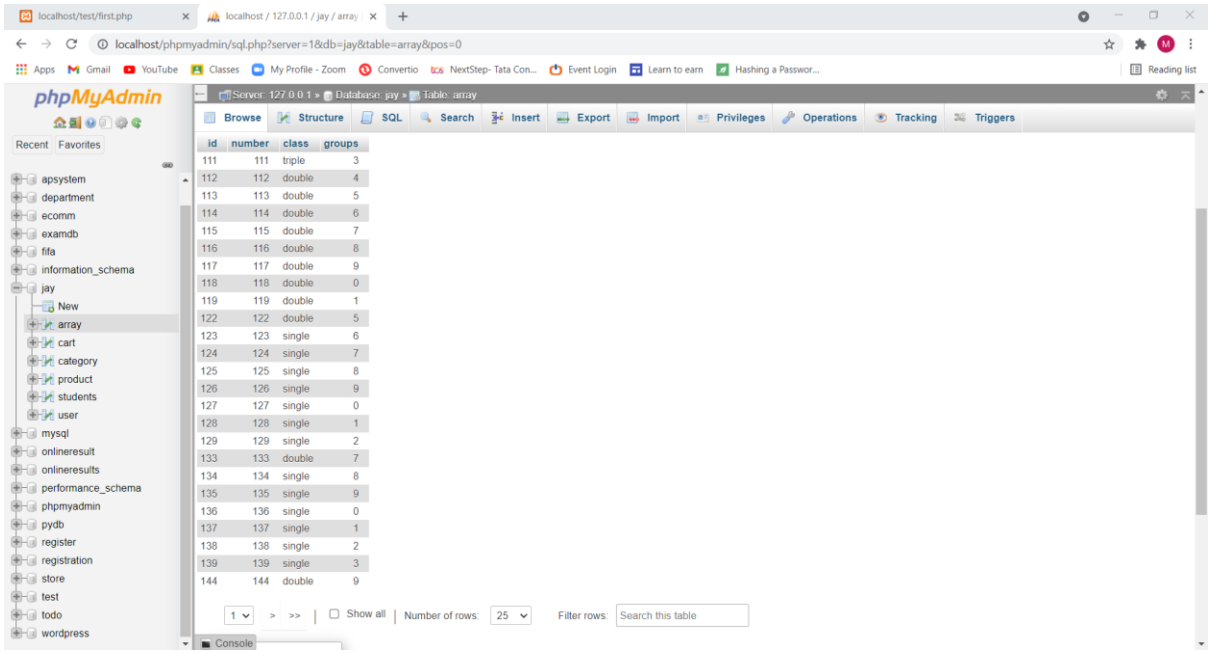
Jay Malde Databse & PHP Test

4. Store the array in a Database.

Code : -

```
$con = mysqli_connect("localhost","root","","jay")or die("Database Connectivity Failed");


for($i=0;$i<count($numVal);$i+=1){
    $index = array_keys($classVal);
    $class = $classVal[$index[$i]];
    $query = "insert into array (id,number,class,groups)
values('$numVal[$i]','$numVal[$i]','$class','$sumVal[$i]')";
    if(mysqli_query($con,$query)){
        echo "<BR><h1 style='text-align:center'>Data Inserted</h1>";
    }else{
        echo "<BR><h1 style='text-align:center'>Data insertion Failed</h1>";
    }
}
```

Output : -



Jay Malde Databse & PHP Test

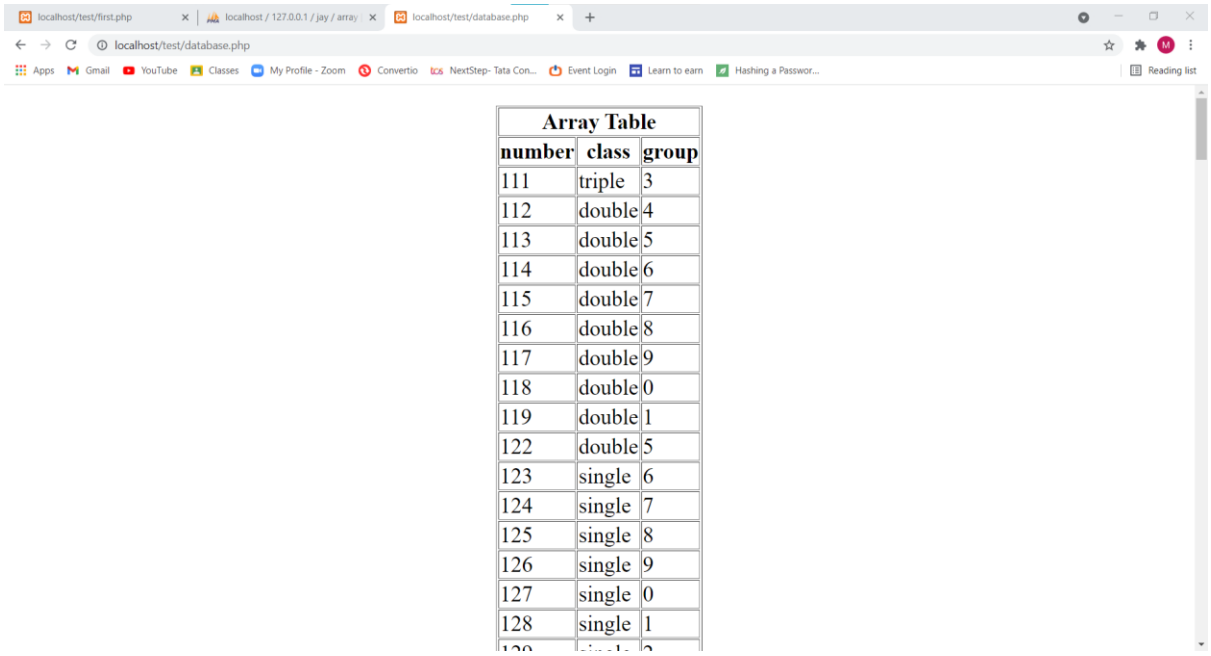
5. Display Group wise Numbers in individual table on a webpage.

Code : -

```
<?php

error_reporting(E_ERROR | E_PARSE);

$con = mysqli_connect("localhost","root","","jay")or die("Database Connectivity Failed");

$query = "select * from array";

$result=mysqli_query($con,$query);

   if(mysqli_num_rows($result)>0){

      echo "<br><table border=1 align=center style='font-size:28px'><tr><th
colspan='3'>Array
Table</th></tr><tr><th>number</th><th>class</th><th>group</th></tr>";

      while($row=mysqli_fetch_assoc($result)){

         echo
"<tr><td>".$row['number']."</td><td>".$row['class']."</td><td>".$row['groups']."</td></tr
>";

      }

      echo "</table>";

   }else{

      echo "<br>0 Records in Row".mysqli_error($con);

   }

?>
```

Output : -

Jay Malde Databse & PHP Test



Array Table		
number	**class**	**group**
111	triple	3
112	double	4
113	double	5
114	double	6
115	double	7
116	double	8
117	double	9
118	double	0
119	double	1
122	double	5
123	single	6
124	single	7
125	single	8
126	single	9
127	single	0
128	single	1