

```
<!DOCTYPE html>

<html>

<head>

  <meta name = "viewport" content = "width=device-width, initial-scale = 1">

  <style>

    header {

      padding: 15px;

      border-style: solid;

      border-color: black;

      background-image:linear-gradient(red,white);

      font-color: white;

      font-size: 15px;

      font-family: monospace;

      opacity: 0.8;

      text-align: center;

    }

    header::after {

      padding: 15px;

      border-style: solid;

      border-color: black;

      background-image:linear-gradient;

      content = "";

      clear: both;

      display: table;

      opacity: 0.8;

      font-family: monospace;

      font-color: white;

    }

  }
```

```
body {  
    font-family: monospace;  
    margin: 0;  
    border-style: black;  
    border-color: black;  
}  
  
section {  
    content = "";  
    display: table;  
    float: left;  
    clear: both;  
    width: 100%;  
    font-size: 15px;  
    border-style: solid;  
    border-color: black;  
}  
  
table {  
    border-style: solid;  
    border-color: black;  
    width: 80%;  
}  
  
th {  
    border-style: solid;  
    border-color: black;  
}  
  
footer {  
    padding: 15px;  
    color: white;  
    border-style: solid;
```

```

        border-color: black;
    }
</style>
<header>
    <h3>Edgar Test Risk Factors</h3>
</header>
</head>
<body>
    <?php

        define("NOAUTH", true);
        require_once "/var/www/html/redcap/redcap_connect.php";

        //The following queries shows the average value for field names

        //takes the average value for alcoholic rates for patients within the database and outputs it on
a table
        $avg_alc_query = "SELECT avg(value) AS AVGALC FROM informatics.redcap_data WHERE
field_name = 'alcoholic'";
        $avg_alc_result = mysqli_query($conn,$avg_alc_query);
        while ($avg_alc_row = mysqli_fetch_assoc($avg_alc_result))
        {
            $avg_alc_output = $avg_alc_row['AVGALC'];
        }

        //takes the average value for congestive heart failure for patients within the database and
outputs it on a table
        $avg_chf_query = "SELECT avg(value) AS AVGCHF FROM informatics.redcap_data WHERE
field_name = 'congestive_heart_failure'";
        $avg_chf_result = mysqli_query($conn,$avg_chf_query);

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while ($avg_chf_row = mysqli_fetch_assoc($avg_chf_result))
{
    $avg_chf_output = $avg_chf_row['AVGCHF'];
}

//takes the average value for COPD for patients within the database and outputs it on a table
$avg_copd_query = "SELECT avg(value) AS AVGCOPD FROM informatics.redcap_data WHERE
field_name = 'copd'";
$avg_copd_result = mysqli_query($conn, $avg_copd_query);
while ($avg_copd_row = mysqli_fetch_assoc($avg_copd_result))
{
    $avg_copd_output = $avg_copd_row['AVGCOPD'];
}

//takes the average vlaue for diabetes levles for patients within the database and outputs it on a
table
$avg_diabetes_query = "SELECT avg(value) AS AVGDIABETES FROM informatics.redcap_data
WHERE field_name = 'diabetes'";
$avg_diabetes_result = mysqli_query($conn, $avg_diabetes_query);
while ($avg_diabetes_row = mysqli_fetch_assoc($avg_diabetes_result))
{
    $avg_diabetes_output = $avg_diabetes_row['AVGDIABETES'];
}

//takes the average value for HIV levels for patients within the database and outputs it on a
table
$avg_hiv_query = "SELECT avg(value) AS AVGHIV FROM informatics.redcap_data WHERE
field_name = 'hiv'";
$avg_hiv_result = mysqli_query($conn, $avg_hiv_query);
while ($avg_hiv_row = mysqli_fetch_assoc($avg_hiv_result))

```

```

{
    $avg_hiv_output = $avg_hiv_row['AVGHIV'];
}

//takes the average value for liver levels for patients within the database and outputs it on a
table
    $avg_liver_query = "SELECT avg(value) AS AVGLIVER FROM informatics.redcap_data WHERE
field_name = 'liver_disease'";

    $avg_liver_result = mysqli_query($conn, $avg_liver_query)
    while ($avg_liver_row = mysqli_fetch_assoc($avg_liver_result))
    {
        $avg_liver_output = $avg_liver_row['AVGLIVER'];
    }

//takes the average value for neoplastic disease levels for patients within the database and
outputs it on a table
    $avg_neo_query = "SELECT avg(value) AS AVGNEO FROM informatics.redcap_data WHERE
field_name = 'neoplastic_disease'";

    $avg_neo_result = mysqli_query($conn, $avg_neo_query)
    while ($avg_neo_row = mysqli_fetch_assoc($avg_neo_result))
    {
        $avg_neo_output = $avg_neo_row['AVGNEO'];
    }

//takes the average value for renal disease levels for patients within the database and outputs it
on a table
    $avg_renal_query = "SELECT avg(value) AS AVGRENAL FROM informatics.redcap_data WHERE
field_name = 'renal_disease'";

    $avg_renal_result = mysqli_query($conn, $avg_renal_query);
    while ($avg_renal_row = mysqli_fetch_assoc($avg_renal_result))
    {

```

```

        $avg_renal_output = $avg_renal_row['AVGRENAL'];
    }

    //takes the average value for chronic renal failure levels for patients and outputs it on a table

    $avg_chronicrenal_query = "SELECT avg(value) AS AVGCHRONICRENALDISEASE FROM
informatics.redcap_data WHERE field_name = 'chronic_renal_failure'";

    $avg_chronicrenal_result = mysqli_query($conn, $avg_chronicrenal_query);
    while ($avg_chronicrenal_row = mysqli_fetch_assoc($avg_chronicrenal_result))
    {
        $avg_chronicrenal_output = $avg_chronicrenal_row['AVGCHRONICRENALDISEASE'];
    }

    //The following queries show the minimum value for field names

    //takes the minimum value for alcoholic levels for patients within the database and out outputs
it on a table

    $min_alc_query = "SELECT min(value) AS MINALC FROM informatics.redcap_data WHERE
field_name = 'alcoholic'";

    $min_alc_result = mysqli_query($conn, $min_alc_query);
    while ($min_alc_row = mysqli_fetch_assoc($min_alc_result))
    {
        $min_alc_output = $min_alc['MINALC'];
    }

    //takes the minimum value for congestive heart failure for patients within the database and
outputs it on a table

    $min_chf_query = "SELECT min(value) AS MINCHF FROM informatics.redcap_data WHERE
field_name = 'congestive_heart_failure'";

    $min_chf_result = mysqli_query($conn, $min_chf_query);
    while ($min_chf_row = mysqli_fetch_assoc($min_chf_result))

```

```

{
    $min_chf_output = $min_chf_row['MINCHF'];
}

//takes the minimum value for COPD for patients within the database and outputs it on table
$min_copd_query = "SELECT min(value) AS MINCOPD FROM informatics.redcap_data WHERE
field_name = 'copd'";
$min_copd_result = mysqli_query($conn, $min_copd_query);
while ($min_copd_row = mysqli_fetch_assoc($min_copd_result))
{
    $min_copd_output = $min_copd_row['MINCOPD'];
}

//take the minimum value for diabetes levels within the database and outputs it on a table
$min_diabetes_query = "SELECT min(value) AS MINDIABETES FROM informatics.redcap_data
WHERE field_name = 'diabetes'";
$min_diabetes_result = mysqli_query($conn, $min_diabetes_query);
while ($min_diabetes_row = mysqli_fetch_assoc($min_diabetes_result))
{
    $min_diabetes_output = $min_diabetes_row['MINDIABETES'];
}

//takes the minimum value for HIV levels within the database and outputs it on a table
$min_hiv_query = "SELECT min(value) AS MINHIV FROM informatics.redcap_data WHERE
field_name = 'HIV'";
$min_hiv_result = $mysqli_query($conn, $min_hiv_query);
while ($min_hiv_row = mysqli_fetch_assoc($min_hiv_result))
{
    $min_hiv_output = $min_hiv_row['MINHIV'];
}

```

```

//takes the minimum vlaue for liver disease within the database and outputs it on a table

$min_liver_query = "SELECT min(value) AS MINLIVER FROM informatics.redcap_data WHERE
field_name = 'liver_disease'";

$min_liver_result = mysqli_query($conn, $min_liver_query);
while ($min_liver_row = mysqli_fetch_assoc($min_liver_result))
{
    $min_liver_output = $min_liver_row['MINLIVER'];
}

//takes the minimum value for neoplastic disease level for patients within the database and
outputs it on a table

$min_neo_query = "SELECT min(value) AS MINNEO FROM informatics.redcap_data WHERE
field_name = 'neoplastic_disease'";

$min_neo_result = mysqli_query($conn, $min_neo_query);
while ($min_neo_row = mysqli_fetch_assoc($min_neo_result))
{
    $min_neo_output = $min_neo_row['MINNEO'];
}

//takes the minimum value for renal disease levels for patients within the database and outputs
it on a table

$min_renal_query = "SELECT min(value) AS MINRENAL FROM informatics.redcap_data WHERE
field_name = 'renal_disease'";

$min_renal_result = mysqli_query($conn, $min_renal_query);
while ($min_renal_row = mysqli_fetch_assoc($min_renal_result))
{
    $min_renal_output = $min_renal_row['MINRENAL'];
}

```



```
$min_chronic_query = "SELECT min(value) AS MINCHRONICRENAL FROM
informatics.redcap_data WHERE field_name = 'chronic_renal_failure'";
```

```
$min_chronic_result = mysqli_query($conn, $min_chronic_query);
```

```
while ($min_chronic_row = mysqli_fetch_assoc($min_chronic_result))
```

```
{
```

```
    $min_chronic_output = $min_chronic_row['MINCHRONICRENAL'];
```

```
}
```

```
//The following queries calculate the maximum value for field names
```

```
//takes the maximum value for
```

```
$max_alc_query = "SELECT max(value) AS MAXALC FROM informatics.redcap_data WHERE
field_name = 'alcoholic'";
```

```
$max_alc_result = mysqli_query($conn, $max_alc_query);
```

```
while ($max_alc_row = mysqli_fetch_assoc)
```

```
{
```

```
    $max_alc_output = $max_alc_row['MAXALC'];
```

```
}
```

```
//takes the maximum value for congestive heart failure levels for patients within the database
and outputs it on a table
```

```
$max_chf_query = "SELECT max(value) AS MAXCHF FROM informatics.redcap_data WHERE
field_name = 'congestive_heart_failure'";
```

```
$max_chf_result = mysqli_query($conn, $max_chf_query);
```

```
while ($max_chf_row = mysqli_fetch_assoc($max_chf_result))
```

```
{
```

```
    $max_chf_output = $max_chf_row['MAXCHF'];
```

```
}
```

```
//takes the maximum value for copd levels for patients within the database and outputs it on a table
```

```
$max_copd_query = "SELECT max(value) AS MAXCOPD FROM informatics.redcap_data WHERE field_name = 'copd'";
```

```
$max_copd_result = mysqli_query($conn, $max_copd_query);
```

```
while ($max_chf_row = mysqli_fetch_assoc($max_copd_result))
```

```
{
```

```
    $max_copd_output = $max_chf_row['MAXCOPD'];
```

```
}
```

```
//takes the maximum value for diabetes within the database and outputs it on a table
```

```
$max_diabetes_query = "SELECT max(value) AS MAXDAIBETES FROM informatics.redcap_data WHERE field_name = 'diabetes'";
```

```
$max_diabetes_result = mysqli_query($conn, $max_diabetes_query);
```

```
while ($max_diabetes_row = mysqli_fetch_assoc($max_diabetes_result))
```

```
{
```

```
    $max_diabetes_output = $max_diabetes_row['MAXDIABETES'];
```

```
}
```

```
//takes the maximum value for HIV levels within the database and outputs it on a table
```

```
$max_hiv_query = "SELECT max(value) AS MAXHIV FROM informatics.redcap_data WHERE field_name = 'hiv'";
```

```
$max_hiv_result = mysqli_query($conn, $max_hiv_query);
```

```
while ($max_hiv_row = mysqli_fetch_assoc($max_hiv_result))
```

```
{
```

```
    $max_hiv_output = $max_hiv_row['MAXHIV'];
```

```
}
```

```
//takes the maximum value for liver disease within the database and outputs it on a table
```

```
$max_liver_query = "SELECT max(value) AS MAXLIVER FROM informatics.redcap_data WHERE  
field_name = 'liver_disease'";
```

```
$max_liver_result = mysqli_query($conn, $max_liver_query);  
while ($max_liver_row = mysqli_fetch_assoc($max_liver_result))  
{  
    $max_liver_output = $max_liver_row['MAXLIVER'];  
}
```

```
//takes the maximum value for neoplastic disease and outputs it on a table
```

```
$max_neo_query = "SELECT max(value) AS MAXNEO FROM informatics.redcap_data WHERE  
field_name = 'neoplastic_disease'";
```

```
$max_neo_result = mysqli_query($conn, $max_neo_query);  
while ($max_neo_row = mysqli_fetch_assoc($max_neo_result))  
{  
    $max_neo_output = $max_neo_row['MAXNEO'];  
}
```

```
//takes the maximum value for renal disease and outputs it on a table
```

```
$max_renal_query = "SELECT max(value) AS MAXRENAL FROM informatics.redcap_data WHERE  
field_name = 'renal_disease'";
```

```
$max_renal_result = mysqli_query($conn, $max_renal_query);  
while ($max_renal_row = mysqli_fetch_assoc($max_renal_result))  
{  
    $max_renal_output = $max_renal_row['MAXRENAL'];  
}
```

```
//takes the maximum value for chronic renal disease and outputs it on table
```

```
$max_chronic_query = "SELECT max(value) AS MAXCHRONICRENAL FROM  
informatics.redcap_data WHERE field_name = 'chronic_renal_disease'";
```

```
$max_chronic_result = mysqli_query($conn, $max_chronic_query);
```

```

while ($max_chronic_row = mysqli_fetch_assoc($max_chronic_result))
{
    $max_chronic_output = $max_chronic_row['MAXCHRONICRENAL'];
}
?>

```

<p>The tables below show the values for the risk factors associated with patients</p>

<p>The table below shows the average values for associated risk factors that go with the patients.</p>

<table>

<tr>

<th>Avg Alcoholic</th>

<th>Avg Congestive Heart Failure</th>

<th>Avg COPD</th>

<th>Avg Diabetes</th>

<th>Avg HIV</th>

<th>Avg Liver Disease</th>

<th>Avg Neoplastic Disease</th>

<th>Avg Renal Disease</th>

<th>Avg Chronic Renal Failure</th>

</tr>

<tr>

<th><?php echo \$avg_alc_output;?></th>

<th><?php echo \$avg_chf_output;?></th>

<th><?php echo \$avg_copd_output;?></th>

<th><?php echo \$avg_diabetes_output;?></th>

<th><?php echo \$avg_hiv_output;?></th>

<th><?php echo \$avg_liver_output;?></th>

<th><?php echo \$avg_neo_output;?></th>
<th><?php echo \$avg_renal_output;?></th>
<th><?php echo \$avg_chronicrenal_output;?></th>

<th>Minimum Alcoholic Levels</th>
<th>Minimum Congestive Heart Failure Levels</th>
<th>Minimum COPD Levels</th>
<th>Minimum Diabetes Levels</th>
<th>Minimum HIV Levels</th>
<th>Minimum Liver Disease Levels</th>
<th>Minimum Neoplastic Disease Levels</th>
<th>Minimum Chronic Renal Failure</th>

<th><?php echo \$min_alc_output;?></th>
<th><?php echo \$min_chf_output;?></th>
<th><?php echo \$min_copd_output;?></th>
<th><?php echo \$min_diabetes_output;?></th>
<th><?php echo \$min_hiv_output;?></th>
<th><?php echo \$min_liver_output;?></th>
<th><?php echo \$min_neo_output;?></th>
<th><?php echo \$min_chronic_output;?></th>

```
<table>
  <tr>
    <th>Maximum Alcoholic Levels</th>
    <th>Maximum Congestive Heart Failure Levels</th>
    <th>Maximum COPD Levels</th>
    <th>Maximum Diabetes Levels</th>
    <th>Maximum HIV Levels</th>
    <th>Maximum Liver Disease Levels</th>
    <th>Maximum Neoplastic Disease Levels</th>
    <th>Maximum Chronic Renal Failure</th>
  </tr>
  <tr>
    <th><?php echo $max_alc_output;?></th>
    <th><?php echo $max_chf_output;?></th>
    <th><?php echo $max_copd_output;?></th>
    <th><?php echo $max_diabetes_output;?></th>
    <th><?php echo $max_hiv_output;?></th>
    <th><?php echo $max_liver_output;?></th>
    <th><?php echo $max_neo_output;?></th>
    <th><?php echo $max_chronic_output;?></th>
  </tr>
</table>
</body>
```