

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>CME Landing</title>
6     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-e0JMYsd53ii+sc0/bJGFsiCZc+5NDVN2yr8+0RDqr0QL0h+rP48ckxlpbzKgwra6" crossorigin="anonymous">
7 </head>
8 <body>
9 <main>
10    <div class="container py-4">
11        <div class="p-5 mb-4 bg-light rounded-3">
12            <div class="container-fluid py-5">
13                <h1 class="display-5 fw-bold">Welcome to the
14                    Consumer Matching Engine!</h1>
15                <p class="col-md-10 fs-4">
16                    Team Members: Rich Frost and Sal
17                    Trupiano<br>
18                    CSI-5450: Database Systems I<br>
19                    </p>
20                    <a href="https://github.com/saltrupiao/
21                    ConsumerMatcher" class="btn btn-primary" role="button"
22                    target="_blank">Project GitHub</a>
23                    <a href="#" class="btn btn-primary" role="button"
24                    target="_blank">Project Demo Video</a><br><br>
25                    <br><br><p>To enter the Consumer Matching
26                    Engine, please click on the Green Button below:</p>
27                    <div class="container-fluid py-5">
28                        <div class="row d-flex justify-content-
center text-center">
```

```
29          <div class="col-md-6">
30              <div class="h-100 p-5 text-white bg-dark
rounded-3">
31                  <h2>Database File</h2>
32                  <p>To see this project for yourself,
please clone our Git Repo, import the SQL File into
PHPMyAdmin, and use the following credentials for access:</p>
33                  <a href="CME_DB_20211129.sql" class="btn
btn-outline-light" role="button" target="_blank">Download
SQL File</a>
34          </div>
35      </div>
36      <div class="col-md-6">
37          <div class="h-100 p-5 text-white bg-dark
rounded-3">
38              <h2>Database Credentials</h2>
39              <p>Use the following credentials to
access the database from the PHP Interface:</p>
40              <ul>
41                  <li>Username: <i>root</i></li>
42                  <li>Password: <i>oakland</i></li>
43              </ul>
44          </div>
45      </div>
46  </div>
47 </div>
48 </main>
49 </body>
50 </html>
```

```
1 <?php
2 session_start();
3
4 $servername = "localhost";
5 $username = "root";
6 $password = "oakland";
7 $dbname = "csiproject";
8
9 // Create connection
10 $conn = new mysqli($servername, $username, $password,
11                     $dbname);
12 // Check connection
13 if ($conn->connect_error) {
14     die("Connection failed: " . $conn->connect_error);
15 }
16 ?>
17
18 <!DOCTYPE html>
19 <html lang="en">
20 <head>
21     <meta charset="UTF-8">
22     <title>Page Title</title>
23     <meta name="viewport" content="width=device-width,
24         initial-scale=1">
25     <link rel="stylesheet" href="https://cdn.jsdelivr.net/
26         npm/bootstrap@4.6.1/dist/css/bootstrap.min.css" integrity="
27         sha384-
28         zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/
29         eSrtxUkn" crossorigin="anonymous">
30 </head>
31
32 <body>
33     <nav class="navbar navbar-expand-lg navbar-dark bg-
34         primary">
35         <a class="navbar-brand" href="index.php">Consumer
36             Matching Engine</a>
37         <button class="navbar-toggler" type="button" data-
38             toggle="collapse" data-target="#navbarNavAltMarkup" aria-
39             controls="navbarNavAltMarkup" aria-expanded="false" aria-
```

```
30 label="Toggle navigation">
31             <span class="navbar-toggler-icon"></span>
32         </button>
33     <div class="collapse navbar-collapse" id="
34         navbarNavAltMarkup">
35             <div class="navbar-nav">
36                 <a class="nav-link active" href="newcust.php
37 " >Enter CME</a>
38                 <a class="nav-link" href="index.php" >About
39 CME</a>
40             </div>
41         </div>
42     </nav>
43     <div class="container">
44         <form method="post" action="custprofilebuilder.php">
45             <h3>Create Customer Profile</h3>
46             <div class="form-group">
47                 <label for="exampleFormControlInput1">Customer
48 Name</label>
49                 <input type="text" class="form-control" id="
50 custNameIn" name="custNameIn" placeholder="Eg. John Smith">
51             </div>
52             <div class="form-group">
53                 <label for="selectDomain">Select Matching Domain
54             </label>
55                 <select class="form-control" id="
56 selectCustDomainIn" name="selectCustDomainIn">
57                 <?php
58                     $sql = "SELECT DomainName from DOMAIN";
59                     $result = $conn->query($sql);
60
61                     if ($result->num_rows > 0) {
62                         // output data of each row
63                         while($row = $result->fetch_assoc
64 () {
65                             echo "<option>" . $row["
66 DomainName"] . "</option>";
67                         }
68                     } else {
69                         echo "0 results";
70                     }
71                 </select>
72             </div>
73         </form>
74     </div>
75 
```

```
61 }  
62 $conn->close();  
63 ?>  
64 </select>  
65 </div>  
66  
67 <input class="btn btn-primary" type="submit" name  
="submit">  
68 </form>  
69 </div>  
70 </body>  
71 </html>
```

```
1 <?php
2
3     //Echo HTML Starting Tags
4     echo '<!DOCTYPE html>
5         <html lang="en">
6             <meta charset="UTF-8">
7                 <title>Matching Results</title>
8                 <meta name="viewport" content="width=device-
9 width,initial-scale=1">
10            <link rel="stylesheet" href="https://cdn.
jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css
" integrity="sha384-
zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/
eSrtxUkn" crossorigin="anonymous">
11            <style>
12            </style>
13            <script src=""></script>
14            <body>
15                <nav class="navbar navbar-expand-lg navbar-dark
bg-primary">
16                    <a class="navbar-brand" href="index.php">
17                        Consumer Matching Engine</a>
18                    <button class="navbar-toggler" type="button"
19 " data-toggle="collapse" data-target="#navbarNavAltMarkup"
20 aria-controls="navbarNavAltMarkup" aria-expanded="false"
21 aria-label="Toggle navigation">
22                        <span class="navbar-toggler-icon"></span
23 >
24                        </button>
25                    <div class="collapse navbar-collapse" id="
26 navbarNavAltMarkup">
27                        <div class="navbar-nav">
28                            <a class="nav-link active" href="
newcust.php">Enter CME</a>
29                            <a class="nav-link" href="index.php
">About CME</a>
30                        </div>
31                    </div>
32                </nav><br><div class="container">' ;
33
```

```
27
28     session_start();
29     $servername = "localhost";
30     $username = "root";
31     $password = "oakland";
32     $dbname = "csiproject";
33
34     // Create connection
35     $conn = new mysqli($servername, $username, $password,
36     $dbname);
36     // Check connection
37     if ($conn->connect_error) {
38         die("Connection failed: " . $conn->connect_error);
39     }
40
41     if($_SERVER["REQUEST_METHOD"] == "POST") {
42         $custDomain = $_POST['custDomainH'];
43         $custName = $_POST['custNameH'];
44
45         $sqlGetCustID = "SELECT CustomerID FROM Customer
46 WHERE CustName = '$custName'";
47         $qGetCustIDResult = $conn->query($sqlGetCustID);
48
49         if ($qGetCustIDResult->num_rows > 0) {
50             while ($qGetCustIDResultRow = $qGetCustIDResult
51             ->fetch_assoc()) {
52                 $custID = $qGetCustIDResultRow['CustomerID'];
53             }
54         }
55         $sqlGetDomainID = "SELECT DomainID from Domain WHERE
56 DomainName = '$custDomain'";
57         $qGetCustDomainResult = $conn->query($sqlGetDomainID
58 );
59
60         if ($qGetCustDomainResult->num_rows > 0) {
61             while ($qGetCustDomainResultRow =
62 $qGetCustDomainResult->fetch_assoc()) {
63                 $custDomainID = $qGetCustDomainResultRow[ '
```

```
59 DomainID'];
60         }
61     }
62
63     /* Echo Debug Statements for Customer ID and
   Customer Domain
64     echo "<h1>Get Customer ID: ";
65     echo $custID;
66     echo "</h1>";
67
68     echo "<h1>Customer Domain: ";
69     echo $custDomain;
70     echo "</h1>";
71 */
72
73     // ***** VEHICLES
***** 
74     if ($custDomain == 'Vehicles') {
75
76         //Get Selected FeatureID
77         $cpBodyStyleID = $_POST['BodyStyleID'];
78         //Get Selected FeatureValue based on FeatureName
79         $cpBodyStyle = $_POST['BodyStyle'];
80         //Get Multiplier
81         $cpBodyStylePriority = $_POST['BodyStylePriority'];
82
83         /* Debug Statements
84         echo "<h1>Body Style ID: $cpBodyStyleID</h1>";
85         echo "<h1>Body Style: $cpBodyStyle</h1>";
86         echo "<h1>Priority: $cpBodyStylePriority</h1><br>";
87
88         */
89
90         $cpColorID = $_POST['ColorID'];
91         $cpColor = $_POST['Color'];
92         $cpColorPriority = $_POST['ColorPriority'];
93         /* Debug Statements
94         echo "<h1>Color ID: $cpColorID</h1>";
95         echo "<h1>Color: $cpColor</h1>";
96         echo "<h1>Priority: $cpColorPriority</h1><br>";
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```

95          */
96
97      $cpEngineID = $_POST['EngineID'];
98      $cpEngine = $_POST['Engine'];
99      $cpEnginePriority = $_POST['EnginePriority'];
100     /* Debug Statements
101     echo "<h1>Engine ID: $cpEngineID</h1>";
102     echo "<h1>Engine: $cpEngine </h1>";
103     echo "<h1>Priority: $cpEnginePriority</h1><br
104    >";
105
106    */
107
108    $cpTransmissionID = $_POST['TransmissionID'];
109    $cpTransmission = $_POST['Transmission'];
110    $cpTransmissionPriority = $_POST["TransmissionPriority"];
111    /* Debug Statements
112    echo "<h1>Trans ID: $cpTransmissionID</h1>";
113    echo "<h1>Trans: $cpTransmission </h1>";
114    echo "<h1>Priority: $cpTransmissionPriority</h1
115    ><br>";
116    */
117
118    $cpDriveID = $_POST['DriveID'];
119    $cpDrive = $_POST['Drive'];
120    $cpDrivePriority = $_POST["DrivePriority"];
121    /* Debug Statements
122    echo "<h1>Drive ID: $cpDriveID</h1>";
123    echo "<h1>Drive: $cpDrive</h1>";
124    echo "<h1>Priority: $cpDrivePriority</h1><br>";
125    */
126
127    $sqlInsertCustProfileBody = "INSERT INTO
128      CustProfile (CustomerID, DomainID, FeatureID,
129      DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
130      VALUES ($custID, $custDomainID, $cpBodyStyleID, NULL, '
131      $cpBodyStyle', $cpBodyStylePriority)";
132      if ($conn->query($sqlInsertCustProfileBody
133      ) === TRUE) {
134          //echo "Body Insert Successful";

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```
127          } else {
128              echo "error: " . $sqlInsertCustProfileBody
129              . "<br>" . $conn->error;
130          }
131
132          $sqlInsertCustProfileColor = "INSERT INTO
133              CustProfile (CustomerID, DomainID, FeatureID,
134              DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
135              VALUES ($custID, $custDomainID, $cpColorID, NULL, '$cpColor
136              ', $cpColorPriority)";
137
138          if ($conn->query($sqlInsertCustProfileColor
139          ) === TRUE) {
140              //echo "Color Insert Successful";
141          } else {
142              echo "error: " .
143                  $sqlInsertCustProfileColor . "<br>" . $conn->error;
144          }
145
146          $sqlInsertCustProfileEngine = "INSERT INTO
147              CustProfile (CustomerID, DomainID, FeatureID,
148              DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
149              VALUES ($custID, $custDomainID, $cpEngineID, NULL, '$cpEngine',
150              $cpEnginePriority)";
151
152          if ($conn->query($sqlInsertCustProfileEngine
153          ) === TRUE) {
154              //echo "Engine Insert Successful";
155          } else {
156              echo "error: " .
157                  $sqlInsertCustProfileEngine . "<br>" . $conn->error;
158          }
159
160          $sqlInsertCustProfileTrans = "INSERT INTO
161              CustProfile (CustomerID, DomainID, FeatureID,
162              DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
163              VALUES ($custID, $custDomainID, $cpTransmissionID, NULL, '$cpTransmission',
164              $cpTransmissionPriority)";
165
166          if ($conn->query($sqlInsertCustProfileTrans
167          ) === TRUE) {
168              //echo "Trans Insert Successful";
169          } else {
```

```

149          echo "error: " . $sqlInsertCustProfileTrans
150          . "<br>" . $conn->error;
151      }
152
153      $sqlInsertCustProfileDrive = "INSERT INTO
154      CustProfile (CustomerID, DomainID, FeatureID,
155      DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
156      VALUES ($custID, $custDomainID, $cpDriveID, NULL, '$cpDrive
157      ', $cpDrivePriority)";
158
159
160      //Drop StockPoints Table -- Reference: https://www.w3schools.com/php/php\_mysql\_delete.asp
161      $sqlDropStockPoints = "DROP TABLE IF EXISTS
162      StockPoints";
163      if ($conn->query($sqlDropStockPoints) === TRUE
164      ) {
165          //echo "<h2>StockPoints Deleted
166          Successfully</h2>";
167      } else {
168          echo "Error Deleting Record: " . $conn->
169          error;
170      }
171
172      $sqlCreateStockPoints = "Create Table
173      StockPoints
174          (Select S.DomainID
175          , C.CustomerID, S.StockNum, S.StockDesc,
176          S.FeatureID, S.
177          StockFeatureValue, S.FeatureName, S.DisplayOrder, S.
178          FeatureValue,
179          S.CustSelectedValue
180          , S.StockConfigValue, S.AffinityPoints, DesiredFeatureValue

```

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171 , Multiplier, (AffinityPoints * Multiplier) as
    WeightedAffinityPoints
172                                         from StockAffinity
173     S join CustProfile C
174                                         on S.
175     CustSelectedValue = C.DesiredFeatureValue and
176                                         S.DomainID = '
177     $custDomainID' and CustomerID = '$custID') order by
178     stocknum, featureID";
179
180     if ($conn->query($sqlCreateStockPoints) ===
181         TRUE) {
182         //echo "<h2> Create Stock Points Success
183         ! </h2>";
184     } else {
185         echo "Error Creating Stock Points Record: "
186         . $conn->error;
187     }
188
189     $sqlDropStockMatch = "DROP TABLE IF EXISTS
190     StockMatch";
191     if ($conn->query($sqlDropStockMatch) === TRUE
192     ) {
193         //echo "<h2>StockMatch Deleted Successfully
194         </h2>";
195     } else {
196         echo "Error Deleting Record: " . $conn->
197         error;
198     }
199
200     $sqlCreateStockMatch = "Create Table StockMatch
201                                         Select DomainID,
202                                         CustomerID, StockNum, StockDesc, sum(WeightedAffinityPoints
203                                         ) as TotalPoints
204                                         from StockPoints
205                                         Group by StockNum
206                                         order by TotalPoints
207                                         DESC";
208
209     if ($conn->query($sqlCreateStockMatch) === TRUE
210     ) {

```

```

195          //echo "<h2> Create Stock Match Success! </
196          h2>";
197      } else {
198          echo "Error Creating Stock Match Record: "
199          . $conn->error;
200      }
201
200      $sqlDeleteCustMatch = "DELETE FROM CustMatch
202 WHERE DomainID = '$custDomainID' AND CustomerID = '$custID
203 ''";
204      if ($conn->query($sqlDeleteCustMatch) === TRUE
205 ) {
206          //echo "<h2>CustMatch Deleted For Existing
207 Customer Successfully</h2>";
208      } else {
209          echo "Error Deleting Record: " . $conn->
210 error;
211      }
212
213
214      $sqlInsertUpdatedCustomerMatch = "INSERT INTO
215 CustMatch SELECT CustomerID, DomainID, StockNum, StockDesc
216 , TotalPoints FROM StockMatch";
217      if ($conn->query($sqlInsertUpdatedCustomerMatch
218 ) === TRUE) {
219          //echo "<h2> Insert Customer Match FINAL
220 Query Success! </h2>";
221      } else {
222          echo "Error Inserting into Customer Match
223 Record: " . $conn->error;
224      }
225
226
227      $sqlDisplayMatchResults = "SELECT StockNum,
228 StockDesc, TotalPoints FROM StockMatch";
229      $qDisplayMatchResults = $conn->query(
230 $sqlDisplayMatchResults);
231
232      if ($qDisplayMatchResults->num_rows > 0) {
233          echo "<h2>" . $custName . ", Your Results
234 Are In!</h2>";
235          echo "<table class='table table-striped'>";

```

```

220                     echo "<thead><tr>";
221                     echo "<th scope='col'>Stock Number</th>";
222                     echo "<th scope='col'>Car</th>";
223                     echo "<th scope='col'>Total Points</th>";
224                     echo "</tr></thead>";
225                     echo "<tbody>";
226                     while ($qDisplayMatchResultsRow =
227                         $qDisplayMatchResults->fetch_assoc()) {
228                         echo "<tr>";
229                         echo "<td>" . $qDisplayMatchResultsRow[
230                             'StockNum'] . "</td>";
231                         echo "<td>" . $qDisplayMatchResultsRow[
232                             'StockDesc'] . "</td>";
233                         echo "<td>" . $qDisplayMatchResultsRow[
234                             'TotalPoints'] . "</td>";
235                         echo "</tr>";
236                     }
237                     echo "</tbody></table>";
238                     echo "<br><br><br><br><div class='card'>
239                         <div class='card-body'>
240                             <h5 class='card-title'>Thank
241                             you for using the Consumer Matching Engine!</h5>
242                             <p class='card-text'>To reset
243                             the CME and perform another match calculation please click
244                             the button below:</p>
245                             <a href='newcust.php' class='
246                               btn btn-primary'>Restart the CME</a>
247                         </div>
248                     </div>";
249
250                     // **** HOMES
251                     ****
252                     } elseif ($custDomain == 'Homes') {
253                         $cpHomeStyleID = $_POST['HomeStyleID'];
254                         $cpHomeStyle = $_POST['HomeStyle'];
255                         $cpHomeStylePriority = $_POST['
256                             HomeStylePriority'];
257
258                         $cpNumBedroomsID = $_POST['NumBedroomsID'];

```

```

250             $cpNumBedrooms = $_POST['NumBedrooms'];
251             $cpNumBedroomsPriority = $_POST['
252                 NumBedroomsPriority'];
253             $cpSchoolSystemID = $_POST['SchoolSystemID'];
254             $cpSchoolSystem = $_POST['SchoolSystem'];
255             $cpSchoolSystemPriority = $_POST['
256                 SchoolSystemPriority'];
257             $cpLotTypeID = $_POST['LotTypeID'];
258             $cpLotType = $_POST['LotType'];
259             $cpLotTypePriority = $_POST["LotTypePriority"];
260
261             $sqlInsertCustProfileStyle = "INSERT INTO
262                 CustProfile (CustomerID, DomainID, FeatureID,
263                 DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
264                 VALUES ($custID, $custDomainID, $cpHomeStyleID, NULL, '
265                 $cpHomeStyle', $cpHomeStylePriority)";
266             if ($conn->query($sqlInsertCustProfileStyle
267 ) === TRUE) {
268                 //echo "Body Insert Successful";
269             } else {
270                 echo "error: " . $sqlInsertCustProfileStyle
271                 . "<br>" . $conn->error;
272             }
273
274             $sqlInsertCustProfileNumBedrooms = "INSERT INTO
275                 CustProfile (CustomerID, DomainID, FeatureID,

```

```

275 CustProfile (CustomerID, DomainID, FeatureID,
276   DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
277   VALUES ($custID, $custDomainID, $cpSchoolSystemID, NULL, '
278     $cpSchoolSystem', $cpSchoolSystemPriority)";
279   if ($conn->query($sqlInsertCustProfileSchoolSys
280 ) === TRUE) {
281     //echo "Engine Insert Successful";
282   } else {
283     echo "error: " .
284     $sqlInsertCustProfileSchoolSys . "<br>" . $conn->error;
285   }
286
287   $sqlInsertCustProfileLotType = "INSERT INTO
288     CustProfile (CustomerID, DomainID, FeatureID,
289       DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
290       VALUES ($custID, $custDomainID, $cpLotTypeID, NULL, '
291         $cpLotType', $cpLotTypePriority)";
292   if ($conn->query($sqlInsertCustProfileLotType
293 ) === TRUE) {
294     //echo "Trans Insert Successful";
295   } else {
296     echo "error: " .
297     $sqlInsertCustProfileLotType . "<br>" . $conn->error;
298   }
299
300
301
302   //Drop StockPoints Table -- Reference: https://www.w3schools.com/php/php\_mysql\_delete.asp
303   $sqlDropStockPoints = "DROP TABLE IF EXISTS
304     StockPoints";
305   if ($conn->query($sqlDropStockPoints) === TRUE
306 ) {
307     //echo "<h2>StockPoints Deleted
308     Successfully</h2>";
309   } else {
310     echo "Error Deleting Record: " . $conn->
311     error;
312   }
313
314   $sqlCreateStockPoints = "Create Table

```

```

298 StockPoints
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320

```

(Select S.DomainID
 , C.CustomerID, S.StockNum, S.StockDesc,
 S.FeatureID, S.
 StockFeatureValue, S.FeatureName, S.DisplayOrder, S.
 FeatureValue,
 S.CustSelectedValue
 , S.StockConfigValue, S.AffinityPoints, DesiredFeatureValue
 , Multiplier, (AffinityPoints * Multiplier) as
 WeightedAffinityPoints
 from StockAffinity
 S join CustProfile C
 on S.
 CustSelectedValue = C.DesiredFeatureValue and
 S.DomainID = '
 \$custDomainID' and CustomerID = '\$custID') order by
 stocknum, featureID";

if (\$conn->query(\$sqlCreateStockPoints) ===
 TRUE) {
 //echo "<h2> Create Stock Points Success
 ! </h2>";
 } else {
 echo "Error Creating Stock Points Record: "
 . \$conn->error;
 }

\$sqlDropStockMatch = "DROP TABLE IF EXISTS
 StockMatch";
 if (\$conn->query(\$sqlDropStockMatch) === TRUE
) {
 //echo "<h2>StockMatch Deleted Successfully
 </h2>";
 } else {
 echo "Error Deleting Record: " . \$conn->
 error;
 }

\$sqlCreateStockMatch = "Create Table StockMatch
 Select DomainID,

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320 CustomerID, StockNum, StockDesc, sum(WeightedAffinityPoints
) as TotalPoints
321                                     from StockPoints
322                                     Group by StockNum
323                                     order by TotalPoints
324 DESC";
324         if ($conn->query($sqlCreateStockMatch) === TRUE
325     ) {
325             //echo "<h2> Create Stock Match Success! </
325 h2>";
326         } else {
327             echo "Error Creating Stock Match Record: "
327 . $conn->error;
328         }
329
330         $sqlDeleteCustMatch = "DELETE FROM CustMatch
330 WHERE DomainID = '$custDomainID' AND CustomerID = '$custID
330 ''";
331         if ($conn->query($sqlDeleteCustMatch) === TRUE
331 ) {
332             //echo "<h2>CustMatch Deleted For Existing
332 Customer Successfully</h2>";
333         } else {
334             echo "Error Deleting Record: " . $conn->
334 error;
335         }
336
337         $sqlInsertUpdatedCustomerMatch = "INSERT INTO
337 CustMatch SELECT CustomerID, DomainID, StockNum, StockDesc
337 , TotalPoints FROM StockMatch";
338         if ($conn->query($sqlInsertUpdatedCustomerMatch
338 ) === TRUE) {
339             //echo "<h2> Insert Customer Match FINAL
339 Query Success! </h2>";
340         } else {
341             echo "Error Inserting into Customer Match
341 Record: " . $conn->error;
342         }
343
344         $sqlDisplayMatchResults = "SELECT StockNum,

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344 StockDesc, TotalPoints FROM StockMatch";
345             $qDisplayMatchResults = $conn->query(
346                 $sqlDisplayMatchResults);
347             if ($qDisplayMatchResults->num_rows > 0) {
348                 echo "<h2>" . $custName . ", Your Results
349                 Are In!</h2>";
350                 echo "<table class='table table-striped'>";
351                 echo "<thead><tr>";
352                 echo "<th scope='col'>Stock Number</th>";
353                 echo "<th scope='col'>Home</th>";
354                 echo "<th scope='col'>Total Points</th>";
355                 echo "</tr></thead>";
356                 echo "<tbody>";
357                 while ($qDisplayMatchResultsRow =
358                     $qDisplayMatchResults->fetch_assoc()) {
359                     echo "<tr>";
360                     echo "<td>" . $qDisplayMatchResultsRow[
361                         'StockNum'] . "</td>";
362                     echo "<td>" . $qDisplayMatchResultsRow[
363                         'StockDesc'] . "</td>";
364                     echo "<td>" . $qDisplayMatchResultsRow[
365                         'TotalPoints'] . "</td>";
366                     echo "</tr>";
367                 }
368                 echo "</tbody></table>";
369                 echo "<br><br><br><br><div class='card'>
370                     <div class='card-body'>
371                         <h5 class='card-title'>Thank
372                         you for using the Consumer Matching Engine!</h5>
373                         <p class='card-text'>To reset
374                         the CME and perform another match calculation please click
375                         the button below:</p>
376                         <a href='newcust.php' class='
377                             btn btn-primary'>Restart the CME</a>
378                     </div>
379                 </div>";
380             }
381         }
382     }
383     // **** MATES

```

```

373 ****
374 } elseif ($custDomain == 'Mates') {
375     $cpAgeID = $_POST['AgeID'];
376     $cpAge = $_POST['Age'];
377     $cpAgePriority = $_POST['AgePriority'];
378
379     $cpEducationID = $_POST['EducationID'];
380     $cpEducation = $_POST['Education'];
381     $cpEducationPriority = $_POST['
382         EducationPriority'];
383
384     $cpHobbyID = $_POST['HobbyID'];
385     $cpHobby = $_POST['Hobby'];
386     $cpHobbyPriority = $_POST['HobbyPriority'];
387
388     $sqlInsertCustProfileAge = "INSERT INTO
389     CustProfile (CustomerID, DomainID, FeatureID,
390     DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
391     VALUES ($custID, $custDomainID, $cpAgeID, NULL, '$cpAge',
392     $cpAgePriority)";
393
394     if ($conn->query($sqlInsertCustProfileAge) ===
395         TRUE) {
396         //echo "Body Insert Successful";
397     } else {
398         echo "error: " . $sqlInsertCustProfileAge
399         . "<br>" . $conn->error;
400     }
401
402     $sqlInsertCustProfileEducation = "INSERT INTO
403     CustProfile (CustomerID, DomainID, FeatureID,
404     DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
405     VALUES ($custID, $custDomainID, $cpEducationID, NULL, '
406     $cpEducation', $cpEducationPriority)";
407
408     if ($conn->query($sqlInsertCustProfileEducation
409 ) === TRUE) {
410         //echo "Color Insert Successful";
411     } else {
412         echo "error: " .
413         $sqlInsertCustProfileEducation . "<br>" . $conn->error;
414     }

```

```

400
401             $sqlInsertCustProfileHobby = "INSERT INTO
402             CustProfile (CustomerID, DomainID, FeatureID,
403             DesiredFeatureValue, DesiredFeatureValueName, Multiplier)
404             VALUES ($custID, $custDomainID, $cpHobbyID, NULL, '$cpHobby
405             ', $cpHobbyPriority)";
406             if ($conn->query($sqlInsertCustProfileHobby
407             ) === TRUE) {
408                 //echo "Engine Insert Successful";
409             } else {
410                 echo "error: " . $sqlInsertCustProfileHobby
411                 . "<br>" . $conn->error;
412             }
413
414             //Drop StockPoints Table -- Reference: https://www.w3schools.com/php/php\_mysql\_delete.asp
415             $sqlDropStockPoints = "DROP TABLE IF EXISTS
416             StockPoints";
417             if ($conn->query($sqlDropStockPoints) === TRUE
418             ) {
419                 //echo "<h2>StockPoints Deleted
420                 Successfully</h2>";
421             } else {
422                 echo "Error Deleting Record: " . $conn->
423                 error;
424             }
425
426             $sqlCreateStockPoints = "Create Table
427             StockPoints
428                     (Select S.DomainID
429             , C.CustomerID, S.StockNum, S.StockDesc,
430                     S.FeatureID, S.
431             StockFeatureValue, S.FeatureName, S.DisplayOrder, S.
432             FeatureValue,
433                     S.CustSelectedValue
434             , S.StockConfigValue, S.AffinityPoints, DesiredFeatureValue
435             , Multiplier, (AffinityPoints * Multiplier) as
436             WeightedAffinityPoints
437                     from StockAffinity
438             S join CustProfile C

```

```

421                                     on S.
422             CustSelectedValue = C.DesiredFeatureValue and
423                                     S.DomainID = '
424             $custDomainID' and CustomerID = '$custID') order by
425             stocknum, featureID";
426
427             if ($conn->query($sqlCreateStockPoints) ===
428             TRUE) {
429                 //echo "<h2> Create Stock Points Success
430                 ! </h2>";
431             } else {
432                 echo "Error Creating Stock Points Record: "
433                 . $conn->error;
434             }
435
436
437             $sqlDropStockMatch = "DROP TABLE IF EXISTS
438             StockMatch";
439             if ($conn->query($sqlDropStockMatch) === TRUE
440             ) {
441                 //echo "<h2>StockMatch Deleted Successfully
442                 </h2>";
443             } else {
444                 echo "Error Deleting Record: " . $conn->
445                 error;
446             }
447
448             $sqlCreateStockMatch = "Create Table StockMatch
449                                     Select DomainID,
450                                     CustomerID, StockNum, StockDesc, sum(WeightedAffinityPoints
451                                     ) as TotalPoints
452                                     from StockPoints
453                                     Group by StockNum
454                                     order by TotalPoints
455                                     DESC";
456
457             if ($conn->query($sqlCreateStockMatch) === TRUE
458             ) {
459                 //echo "<h2> Create Stock Match Success! </
460                 h2>";
461             } else {
462                 echo "Error Creating Stock Match Record: "

```

```

445 . $conn->error;
446 }
447
448         $sqlDeleteCustMatch = "DELETE FROM CustMatch
449 WHERE DomainID = '$custDomainID' AND CustomerID = '$custID'
450 ";
451         if ($conn->query($sqlDeleteCustMatch) === TRUE
452 ) {
453             //echo "<h2>CustMatch Deleted For Existing
454 Customer Successfully</h2>";
455         } else {
456             echo "Error Deleting Record: " . $conn->
457 error;
458         }
459
460         $sqlInsertUpdatedCustomerMatch = "INSERT INTO
461 CustMatch SELECT CustomerID, DomainID, StockNum, StockDesc
462 , TotalPoints FROM StockMatch";
463         if ($conn->query($sqlInsertUpdatedCustomerMatch
464 ) === TRUE) {
465             //echo "<h2> Insert Customer Match FINAL
466 Query Success! </h2>";
467         } else {
468             echo "Error Inserting into Customer Match
469 Record: " . $conn->error;
470         }
471
472         $sqlDisplayMatchResults = "SELECT StockNum,
473 StockDesc, TotalPoints FROM StockMatch";
474         $qDisplayMatchResults = $conn->query(
475 $sqlDisplayMatchResults);
476
477         if ($qDisplayMatchResults->num_rows > 0) {
478             echo "<h2>" . $custName . ", Your Results
479 Are In!</h2>";
480             echo "<table class='table table-striped'>";
481             echo "<thead><tr>";
482             echo "<th scope='col'>Stock Number</th>";
483             echo "<th scope='col'>Your New Love!</th>";
484             echo "<th scope='col'>Total Points</th>";

```

```
472                     echo "</tr></thead>";
473                     echo "<tbody>";
474                     while ($qDisplayMatchResultsRow =
475                         $qDisplayMatchResults->fetch_assoc()) {
476                         echo "<tr>";
477                         echo "<td>" . $qDisplayMatchResultsRow[
478                             'StockNum'] . "</td>";
479                         echo "<td>" . $qDisplayMatchResultsRow[
480                             'StockDesc'] . "</td>";
481                         echo "<td>" . $qDisplayMatchResultsRow[
482                             'TotalPoints'] . "</td>";
483                         echo "</tr>";
484                     }
485                     echo "</tbody></table>";
486                     echo "<br><br><br><br><div class='card'>
487                         <div class='card-body'>
488                             <h5 class='card-title'>Thank
489                             you for using the Consumer Matching Engine!</h5>
490                             <p class='card-text'>To reset
491                             the CME and perform another match calculation please click
492                             the button below:</p>
493                         <a href='newcust.php' class='
494                             btn btn-primary'>Restart the CME</a>
495                     </div>
496                 </div>";
497             } else {
498                 echo "<h1>Invalid Domain ID</h1>";
499             }
500         }
501         // Create connection
502         $conn = new mysqli($servername, $username, $password,
503                         $dbname);
504         // Check connection
```

```
503     if ($conn->connect_error) {  
504         die("Connection failed: " . $conn->connect_error);  
505     }  
506  
507     //Echo Closing HTML Statements  
508     echo '</div><script src="https://cdn.jsdelivr.net/npm/  
jquery@3.5.1/dist/jquery.slim.min.js" integrity="sha384-  
DfXdz2htPH0lsSSs5nCTpuj/zy4C+0GpamoFVy38MVBnE+IbbVYUew+  
OrCXaRkfj" crossorigin="anonymous"></script>  
509             <script src="https://cdn.jsdelivr.net/npm/  
bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js" integrity  
="sha384-fQybJgWLrvvRgtW6bFLB7jaZrFsaBXjs0Mm/  
tB9LTS580NXgqbR9W8oWht/amnpF" crossorigin="anonymous"></  
script>  
510             </body></html>';  
511  
512 ?>
```

```
1 -- phpMyAdmin SQL Dump
2 -- version 5.1.1
3 -- https://www.phpmyadmin.net/
4 --
5 -- Host: localhost:3306
6 -- Generation Time: Nov 29, 2021 at 11:58 PM
7 -- Server version: 10.4.21-MariaDB
8 -- PHP Version: 8.0.12
9
10 SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
11 START TRANSACTION;
12 SET time_zone = "+00:00";
13
14
15 /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
16 /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
17 /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
18 /*!40101 SET NAMES utf8mb4 */;
19
20 --
21 -- Database: `csiproject`
22 --
23
24 -- -----
25
26 --
27 -- Table structure for table `affinity`
28 --
29
30 CREATE TABLE `affinity` (
31   `CustSelectedValue` int(11) NOT NULL COMMENT 'Value that
32   an affinity is being define for. (Value ID:3 --> Red) ',
33   `StockConfigValue` int(11) NOT NULL COMMENT 'Value for
34   which an affinity is being defiend for. (eg AffinityValueID
35   : 33-> Orange)',
36   `AffinityPoints` int(11) DEFAULT NULL COMMENT 'The number
37   of Points awarded for an inventory item haveing the
```

```
33 AffinityValue when the cusotmer chooses SelectedValue '
34 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
35
36 --
37 -- Dumping data for table `affinity`
38 --
39
40 INSERT INTO `affinity` (`CustSelectedValue`, `StockConfigValue`, `AffinityPoints`) VALUES
41 (1, 1, 10),
42 (1, 2, 4),
43 (1, 3, 0),
44 (1, 4, 8),
45 (2, 1, 7),
46 (2, 2, 10),
47 (2, 3, 5),
48 (2, 4, 5),
49 (3, 1, 4),
50 (3, 2, 7),
51 (3, 3, 10),
52 (3, 4, 0),
53 (4, 1, 8),
54 (4, 2, 4),
55 (4, 3, 3),
56 (4, 4, 10),
57 (5, 5, 10),
58 (5, 6, 7),
59 (5, 7, 6),
60 (5, 8, 6),
61 (5, 9, 2),
62 (5, 10, 0),
63 (6, 5, 7),
64 (6, 6, 10),
65 (6, 7, 8),
66 (6, 8, 5),
67 (6, 9, 2),
68 (6, 10, 2),
69 (7, 5, 5),
70 (7, 6, 7),
71 (7, 7, 10),
```

```
72 (7, 8, 9),  
73 (7, 9, 4),  
74 (7, 10, 3),  
75 (8, 5, 5),  
76 (8, 6, 7),  
77 (8, 7, 9),  
78 (8, 8, 10),  
79 (8, 9, 4),  
80 (8, 10, 3),  
81 (9, 5, 6),  
82 (9, 6, 3),  
83 (9, 7, 4),  
84 (9, 8, 6),  
85 (9, 9, 10),  
86 (9, 10, 8),  
87 (10, 5, 8),  
88 (10, 6, 2),  
89 (10, 7, 4),  
90 (10, 8, 6),  
91 (10, 9, 8),  
92 (10, 10, 10),  
93 (11, 11, 10),  
94 (11, 12, 7),  
95 (11, 13, 2),  
96 (11, 14, 0),  
97 (12, 11, 7),  
98 (12, 12, 10),  
99 (12, 13, 7),  
100 (12, 14, 2),  
101 (13, 11, 2),  
102 (13, 12, 7),  
103 (13, 13, 10),  
104 (13, 14, 7),  
105 (14, 11, 0),  
106 (14, 12, 2),  
107 (14, 13, 7),  
108 (14, 14, 10),  
109 (15, 15, 10),  
110 (15, 16, 4),  
111 (16, 15, 4),
```

```
112 (16, 16, 10),  
113 (17, 17, 10),  
114 (17, 18, 4),  
115 (17, 19, 7),  
116 (18, 17, 6),  
117 (18, 18, 10),  
118 (18, 19, 7),  
119 (19, 17, 7),  
120 (19, 18, 4),  
121 (19, 19, 10),  
122 (20, 20, 10),  
123 (20, 21, 7),  
124 (20, 22, 4),  
125 (20, 23, 0),  
126 (21, 20, 7),  
127 (21, 21, 10),  
128 (21, 22, 4),  
129 (21, 23, 0),  
130 (22, 20, 2),  
131 (22, 21, 6),  
132 (22, 22, 10),  
133 (22, 23, 4),  
134 (23, 20, 0),  
135 (23, 21, 2),  
136 (23, 22, 5),  
137 (23, 23, 10),  
138 (24, 24, 10),  
139 (24, 25, 8),  
140 (24, 26, 4),  
141 (25, 24, 2),  
142 (25, 25, 10),  
143 (25, 26, 7),  
144 (26, 24, 0),  
145 (26, 25, 4),  
146 (26, 26, 10),  
147 (27, 27, 10),  
148 (27, 28, 6),  
149 (27, 29, 2),  
150 (28, 27, 6),  
151 (28, 28, 10),
```

```
152 (28, 29, 6),  
153 (29, 27, 2),  
154 (29, 28, 6),  
155 (29, 29, 10),  
156 (30, 31, 10),  
157 (30, 32, 7),  
158 (30, 33, 2),  
159 (30, 34, 1),  
160 (31, 31, 7),  
161 (31, 32, 10),  
162 (31, 33, 7),  
163 (31, 34, 2),  
164 (32, 31, 2),  
165 (32, 32, 7),  
166 (32, 33, 10),  
167 (32, 34, 7),  
168 (33, 31, 0),  
169 (33, 32, 2),  
170 (33, 33, 7),  
171 (33, 34, 10),  
172 (34, 34, 10),  
173 (34, 35, 7),  
174 (34, 36, 3),  
175 (34, 37, 1),  
176 (35, 34, 5),  
177 (35, 35, 10),  
178 (35, 36, 7),  
179 (35, 37, 2),  
180 (36, 34, 2),  
181 (36, 35, 7),  
182 (36, 36, 10),  
183 (36, 37, 8),  
184 (37, 34, 1),  
185 (37, 35, 3),  
186 (37, 36, 8),  
187 (37, 37, 10),  
188 (38, 38, 10),  
189 (38, 39, 7),  
190 (38, 40, 2),  
191 (38, 41, 0),
```

```
192 (39, 38, 7),  
193 (39, 39, 10),  
194 (39, 40, 5),  
195 (39, 41, 2),  
196 (40, 38, 2),  
197 (40, 39, 7),  
198 (40, 40, 10),  
199 (40, 41, 7),  
200 (41, 38, 3),  
201 (41, 39, 5),  
202 (41, 40, 7),  
203 (41, 41, 10),  
204 (42, 42, 10),  
205 (42, 43, 6),  
206 (42, 44, 2),  
207 (43, 42, 4),  
208 (43, 43, 10),  
209 (43, 44, 6),  
210 (44, 42, 2),  
211 (44, 43, 7),  
212 (44, 44, 10);  
213  
214 -----  
215  
216 --  
217 -- Table structure for table `custmatch`  
218 --  
219  
220 CREATE TABLE `custmatch` (  
221   `CustomerID` int(11) NOT NULL,  
222   `DomainID` int(11) NOT NULL,  
223   `StockNum` int(11) NOT NULL,  
224   `StockDesc` varchar(60) NOT NULL,  
225   `TotalPoints` int(11) NOT NULL  
226 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
227  
228 --  
229 -- Dumping data for table `custmatch`  
230 --  
231
```

```
232 INSERT INTO `custmatch`(`CustomerID`, `DomainID`, `StockNum`, `StockDesc`, `TotalPoints`) VALUES  
233 (1, 1, 1, '', 277),  
234 (1, 1, 2, '', 180),  
235 (1, 1, 3, '', 237),  
236 (1, 1, 4, '', 247),  
237 (1, 1, 5, '', 200),  
238 (1, 1, 6, '', 240),  
239 (1, 1, 7, '', 207),  
240 (1, 1, 8, '', 240),  
241 (1, 1, 9, '', 210),  
242 (1, 1, 10, '', 80),  
243 (1, 1, 11, '', 217),  
244 (2, 1, 1, '', 32),  
245 (2, 1, 2, '', 42),  
246 (2, 1, 3, '', 52),  
247 (2, 1, 4, '', 62),  
248 (3, 1, 3, '', 33),  
249 (3, 1, 4, '', 43),  
250 (3, 1, 5, '', 53),  
251 (3, 1, 6, '', 63),  
252 (37, 1, 1, '', 102),  
253 (37, 1, 2, '', 72),  
254 (37, 1, 3, '', 96),  
255 (37, 1, 4, '', 99),  
256 (37, 1, 5, '', 92),  
257 (37, 1, 6, '', 102),  
258 (37, 1, 7, '', 72),  
259 (37, 1, 8, '', 102),  
260 (37, 1, 9, '', 84),  
261 (37, 1, 10, '', 26),  
262 (37, 1, 11, '', 86),  
263 (38, 1, 1, 'Chevy Malibu, 6 Cyl, White, FWD', 79),  
264 (38, 1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD', 67),  
265 (38, 1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD', 76),  
266 (38, 1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD ', 79),  
267 (38, 1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD', 75),  
268 (38, 1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD', 85),  
269 (38, 1, 7, 'VW Jetta,6 Cyl, Silver, FWD', 61),  
270 (38, 1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD', 85),
```

```

271 (38, 1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD', 79),
272 (38, 1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD', 14),
273 (38, 1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD', 63),
274 (39, 1, 1, 'Chevy Malibu, 6 Cyl, White, FWD', 102),
275 (39, 1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD', 72),
276 (39, 1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD', 96),
277 (39, 1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD ', 99),
278 (39, 1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD', 92),
279 (39, 1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD', 102),
280 (39, 1, 7, 'VW Jetta,6 Cyl, Silver, FWD', 72),
281 (39, 1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD', 102),
282 (39, 1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD', 84),
283 (39, 1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD', 26),
284 (39, 1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD', 86),
285 (42, 1, 1, 'Chevy Malibu, 6 Cyl, White, FWD', 51),
286 (42, 1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD', 48),
287 (42, 1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD', 39),
288 (42, 1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD ', 42),
289 (42, 1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD', 31),
290 (42, 1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD', 39),
291 (42, 1, 7, 'VW Jetta,6 Cyl, Silver, FWD', 45),
292 (42, 1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD', 39),
293 (42, 1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD', 45),
294 (42, 1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD', 25),
295 (42, 1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD', 22),
296 (43, 1, 1, 'Chevy Malibu, 6 Cyl, White, FWD', 41),
297 (43, 1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD', 31),
298 (43, 1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD', 40),
299 (43, 1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD ', 41),
300 (43, 1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD', 41),
301 (43, 1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD', 43),
302 (43, 1, 7, 'VW Jetta,6 Cyl, Silver, FWD', 31),
303 (43, 1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD', 43),
304 (43, 1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD', 37),
305 (43, 1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD', 10),
306 (43, 1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD', 37),
307 (44, 1, 1, 'Chevy Malibu, 6 Cyl, White, FWD', 57),
308 (44, 1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD', 61),
309 (44, 1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD', 56),
310 (44, 1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD ', 52),

```

```

311 (44, 1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD', 61),
312 (44, 1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD', 61),
313 (44, 1, 7, 'VW Jetta,6 Cyl, Silver, FWD', 61),
314 (44, 1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD', 59),
315 (44, 1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD', 53),
316 (44, 1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD', 26),
317 (44, 1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD', 45),
318 (45, 2, 12, '2 Bedroom Traditional Condo in Troy', 52),
319 (45, 2, 13, '4 Bedroom Traditional Colonial in Troy', 34),
320 (45, 2, 14, '3 Bedroom Modern Ranch in Troy', 52),
321 (45, 2, 15, 'Historic Lakefront Mansion in Grosse Pointe',
10),
322 (45, 2, 16, '2 Bedroom Modern Condo in Detroit', 50),
323 (45, 2, 17, '4 Bedroom Farmhouse in Romeo', 31),
324 (45, 2, 18, '3 Bedroom Historic Colonial in Troy', 30),
325 (45, 2, 19, '3 Bedroom Ranch in Romeo', 41),
326 (45, 2, 20, '3 Bedroom Modern Condo in Royal Oak', 48),
327 (46, 3, 21, 'Miley Cyrus', 2),
328 (46, 3, 22, 'Lady Gaga', 4),
329 (46, 3, 23, 'Rihanna', 2),
330 (46, 3, 24, 'Natalie Portman', 26),
331 (46, 3, 25, 'Bridgit Mendler', 30),
332 (46, 3, 26, 'Ashley Judd', 24),
333 (46, 3, 27, 'Kourtney Kardashian', 20);
334
335 -----
336
337 --
338 -- Table structure for table `customer`
339 --
340
341 CREATE TABLE `customer` (
342   `CustomerID` int(11) NOT NULL COMMENT 'Key for customer
table\n',
343   `CustName` varchar(45) DEFAULT NULL COMMENT 'Name of
customer'
344 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
345
346 --
347 -- Dumping data for table `customer`
```

```
348 --
349
350 INSERT INTO `customer` (`CustomerID`, `CustName`) VALUES
351 (1, 'Sal'),
352 (2, 'Rich'),
353 (3, 'Dr. Singh'),
354 (4, 'Pragati'),
355 (5, 'Zimo'),
356 (6, 'ST'),
357 (7, 'SDT'),
358 (8, 'Test 2'),
359 (9, 'SDTWS'),
360 (10, 'Test 3'),
361 (11, 'John Smith II'),
362 (12, 'JS 3'),
363 (13, 'JS 4'),
364 (14, 'JS 5'),
365 (15, 'JS 6'),
366 (16, 'JS 7'),
367 (17, 'JS 8'),
368 (18, 'JS 10'),
369 (19, 'JS 11'),
370 (20, 'JS 12'),
371 (21, 'JS 13'),
372 (22, 'JS 14'),
373 (23, 'JS 15'),
374 (24, 'JS 16'),
375 (25, 'SDT 123'),
376 (26, 'SDT 45'),
377 (27, 'SDT 6'),
378 (28, 'SDT 7'),
379 (29, 'SDT 8'),
380 (30, 'SDT 9'),
381 (31, 'SDT 10'),
382 (32, 'JS 17'),
383 (33, 'SDT 18'),
384 (34, 'SDT 19'),
385 (35, 'SDT 20'),
386 (36, 'SDT 21'),
387 (37, 'SDT 22'),
```

```
388 (38, 'SDT 24'),  
389 (39, 'SDT 25'),  
390 (40, 'SDT 26'),  
391 (41, 'SDT 28'),  
392 (42, 'SDT 30'),  
393 (43, 'SDT 31'),  
394 (44, 'Jane Smith1'),  
395 (45, 'Jane Smith2'),  
396 (46, 'Jane Smith 3');  
397  
398 -- -----  
399  
400 --  
401 -- Table structure for table `custprofile`  
402 --  
403  
404 CREATE TABLE `custprofile` (  
405   `CustomerID` int(11) NOT NULL,  
406   `DomainID` int(11) NOT NULL,  
407   `FeatureID` int(11) NOT NULL COMMENT 'ID of the feature'  
    ,  
408   `DesiredFeatureValue` int(11) DEFAULT NULL COMMENT 'This  
     references the key in FeatureValue table ',  
409   `DesiredFeatureValueName` varchar(25) NOT NULL,  
410   `Multiplier` int(11) DEFAULT NULL COMMENT 'Multiplier  
     value for the feature, that is how important the feature is  
     to the customer. Not important would have low value,  
     important features would have highe value. Will need to  
     do analysis to determine the right range. (maybe 1-5?, 1-10  
     ?, 1-20?, ....'  
411 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
412  
413 --  
414 -- Dumping data for table `custprofile`  
415 --  
416  
417 INSERT INTO `custprofile`(`CustomerID`, `DomainID`, `  
     FeatureID`, `DesiredFeatureValue`, `DesiredFeatureValueName`  
     , `Multiplier`) VALUES  
418 (1, 1, 1, 1, '', 5),
```

```
419 (1, 1, 2, 5, '', 10),
420 (1, 1, 3, 11, '', 1),
421 (1, 1, 4, 15, '', 5),
422 (1, 1, 5, 17, '', 10),
423 (2, 1, 1, 2, '', 2),
424 (2, 1, 2, 8, '', 3),
425 (2, 1, 3, 12, '', 4),
426 (2, 1, 4, 15, '', 5),
427 (2, 1, 5, 19, '', 6),
428 (3, 1, 1, 3, '', 10),
429 (3, 1, 2, 9, '', 9),
430 (3, 1, 3, 14, '', 8),
431 (3, 1, 4, 16, '', 7),
432 (3, 1, 5, 18, '', 6),
433 (4, 1, 1, 4, '', 10),
434 (4, 1, 2, 9, '', 5),
435 (4, 1, 3, 11, '', 5),
436 (4, 1, 4, 15, '', 7),
437 (4, 1, 5, 19, '', 6),
438 (5, 1, 1, 2, '', 5),
439 (5, 1, 2, 5, '', 2),
440 (5, 1, 3, 11, '', 10),
441 (5, 1, 4, 16, '', 7),
442 (5, 1, 5, 17, '', 10),
443 (32, 1, 1, 1, 'SUV', 3),
444 (32, 1, 2, 5, 'White', 1),
445 (32, 1, 3, 11, '4 Cyl', 2),
446 (32, 1, 4, 15, 'Automatic', 3),
447 (32, 1, 5, 17, 'Front Wheel Drive', 1),
448 (33, 1, 1, 1, 'SUV', 1),
449 (33, 1, 2, 5, 'White', 3),
450 (33, 1, 3, 11, '4 Cyl', 2),
451 (33, 1, 4, 15, 'Automatic', 3),
452 (33, 1, 5, 17, 'Front Wheel Drive', 1),
453 (34, 1, 1, 1, 'SUV', 2),
454 (34, 1, 2, 5, 'White', 3),
455 (34, 1, 3, 11, '4 Cyl', 1),
456 (34, 1, 4, 15, 'Automatic', 2),
457 (34, 1, 5, 17, 'Front Wheel Drive', 2),
458 (35, 1, 1, 1, 'SUV', 2),
```

```
459 (35, 1, 2, 5, 'White', 3),
460 (35, 1, 3, 11, '4 Cyl', 2),
461 (35, 1, 4, 15, 'Automatic', 1),
462 (35, 1, 5, 17, 'Front Wheel Drive', 3),
463 (36, 1, 1, 1, 'SUV', 3),
464 (36, 1, 2, 5, 'White', 2),
465 (36, 1, 3, 11, '4 Cyl', 1),
466 (36, 1, 4, 15, 'Automatic', 2),
467 (36, 1, 5, 17, 'Front Wheel Drive', 3),
468 (37, 1, 1, 1, 'SUV', 2),
469 (37, 1, 2, 5, 'White', 3),
470 (37, 1, 3, 11, '4 Cyl', 2),
471 (37, 1, 4, 15, 'Automatic', 3),
472 (37, 1, 5, 17, 'Front Wheel Drive', 2),
473 (38, 1, 1, 1, 'SUV', 2),
474 (38, 1, 2, 5, 'White', 3),
475 (38, 1, 3, 11, '4 Cyl', 3),
476 (38, 1, 4, 15, 'Automatic', 1),
477 (38, 1, 5, 17, 'Front Wheel Drive', 1),
478 (39, 1, 1, 1, 'SUV', 2),
479 (39, 1, 2, 5, 'White', 3),
480 (39, 1, 3, 11, '4 Cyl', 2),
481 (39, 1, 4, 15, 'Automatic', 3),
482 (39, 1, 5, 17, 'Front Wheel Drive', 2),
483 (42, 1, 1, 2, 'Sedan', 1),
484 (42, 1, 2, 5, 'White', 3),
485 (42, 1, 3, NULL, 'V6', 2),
486 (42, 1, 4, 16, 'Stick Shift', 1),
487 (42, 1, 5, 19, 'All Wheel Drive', 1),
488 (43, 1, 1, 1, 'SUV', 1),
489 (43, 1, 2, 5, 'White', 1),
490 (43, 1, 3, 11, '4 Cyl', 1),
491 (43, 1, 4, 15, 'Automatic', 1),
492 (43, 1, 5, 17, 'Front Wheel Drive', 1),
493 (44, 1, 1, 2, 'Sedan', 2),
494 (44, 1, 2, 8, 'Silver', 2),
495 (44, 1, 3, 11, '4 Cyl', 1),
496 (44, 1, 4, 15, 'Automatic', 1),
497 (44, 1, 5, 17, 'Front Wheel Drive', 1),
498 (45, 2, 6, 20, 'Condo', 2),
```

```
499 (45, 2, 7, 24, '2', 1),
500 (45, 2, 8, 27, 'Modern', 2),
501 (45, 2, 9, 30, 'Urban', 1),
502 (46, 3, 11, 38, 'Post-Grad', 2),
503 (46, 3, 12, 42, 'Reading', 1);
504
505 --
506 -- Triggers `custprofile`
507 --
508 DELIMITER $$;
509 CREATE TRIGGER `custprofile_get_featurevalue_id` BEFORE
    INSERT ON `custprofile` FOR EACH ROW BEGIN
510
511     DECLARE NewID INT;
512
513     SELECT FeatureValueID FROM featvalue WHERE FeatureValue =
        new.DesiredFeatureValueName INTO NewID;
514
515     SET new.DesiredFeatureValue = NewID;
516
517 END
518 $$;
519 DELIMITER ;
520
521 -- -----
522
523 --
524 -- Table structure for table `domain`
525 --
526
527 CREATE TABLE `domain` (
528     `DomainID` int(11) NOT NULL,
529     `DomainName` varchar(20) DEFAULT NULL
530 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
531
532 --
533 -- Dumping data for table `domain`
534 --
535
536 INSERT INTO `domain` (`DomainID`, `DomainName`) VALUES
```

```
537 (1, 'Vehicles'),
538 (2, 'Homes'),
539 (3, 'Mates');
540
541 -- -----
542
543 --
544 -- Table structure for table `feature`
545 --
546
547 CREATE TABLE `feature` (
548   `FeatureID` int(11) NOT NULL COMMENT 'Key value for
      freature, System assigned',
549   `DomainID` int(11) NOT NULL,
550   `FeatureName` varchar(20) NOT NULL COMMENT 'Name of the
      feature( i.e: "Body Style'', Color, Transmission, Engine,
      Wheel size)',
551   `DisplayOrder` int(11) NOT NULL
552 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
553
554 --
555 -- Dumping data for table `feature`
556 --
557
558 INSERT INTO `feature` (`FeatureID`, `DomainID`, `
      FeatureName`, `DisplayOrder`) VALUES
559 (1, 1, 'BodyStyle', 1),
560 (2, 1, 'Color', 2),
561 (3, 1, 'Engine', 3),
562 (4, 1, 'Transmission', 4),
563 (5, 1, 'Drive', 5),
564 (6, 2, 'HomeStyle', 1),
565 (7, 2, 'NumBedrooms', 2),
566 (8, 2, 'SchoolSystem', 3),
567 (9, 2, 'LotType', 4),
568 (10, 3, 'Age', 1),
569 (11, 3, 'Education', 2),
570 (12, 3, 'Hobby', 3);
571
572 -- -----
```

```
573
574 --
575 -- Table structure for table `featvalue`
576 --
577
578 CREATE TABLE `featvalue` (
579   `FeatureValueID` int(11) NOT NULL COMMENT 'Key for table'
580   ,
581   `FeatureID` int(11) NOT NULL COMMENT 'The ID for the
      feature being defined. (FeatureID 6->Color)',
582   `FeatureValue` varchar(25) NOT NULL COMMENT 'A text
      description for the feature (i.e.: Red, Yellow, ''5sp
      manual'', ''18 inch black rims'', ''Turbocharged V6 2.5L''
      , ''Long range battery pack'''
583 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
584 --
585 -- Dumping data for table `featvalue`
586 --
587
588 INSERT INTO `featvalue`(`FeatureValueID`, `FeatureID`,
      FeatureValue) VALUES
589 (1, 1, 'SUV'),
590 (2, 1, 'Sedan'),
591 (3, 1, 'Sports Car'),
592 (4, 1, 'Mini Van'),
593 (5, 2, 'White'),
594 (6, 2, 'Black'),
595 (7, 2, 'Grey'),
596 (8, 2, 'Silver'),
597 (9, 2, 'Red'),
598 (10, 2, 'Orange'),
599 (11, 3, '4 Cyl'),
600 (12, 3, ' V6'),
601 (13, 3, ' V8 '),
602 (14, 3, ' V12'),
603 (15, 4, 'Automatic'),
604 (16, 4, 'Stick Shift'),
605 (17, 5, 'Front Wheel Drive'),
606 (18, 5, 'Rear Wheel Drive'),
```

```
607 (19, 5, 'All Wheel Drive'),  
608 (20, 6, 'Condo'),  
609 (21, 6, 'Ranch'),  
610 (22, 6, 'Colonial'),  
611 (23, 6, 'Mansion'),  
612 (24, 7, '2'),  
613 (25, 7, '3'),  
614 (26, 7, '4'),  
615 (27, 8, 'Modern'),  
616 (28, 8, 'Traditional'),  
617 (29, 8, 'Historic'),  
618 (30, 9, 'Urban'),  
619 (31, 9, 'Subdivision'),  
620 (32, 9, 'Rual'),  
621 (33, 9, 'LakeFront'),  
622 (34, 10, '20s'),  
623 (35, 10, '30s'),  
624 (36, 10, '40s'),  
625 (37, 10, '50s'),  
626 (38, 11, 'Post-Grad'),  
627 (39, 11, 'College'),  
628 (40, 11, 'Trade School'),  
629 (41, 11, 'High School'),  
630 (42, 12, 'Reading'),  
631 (43, 12, 'Tennis'),  
632 (44, 12, 'Rockclimbing');  
633  
634 -----  
635  
636 --  
637 -- Table structure for table `stock`  
638 --  
639  
640 CREATE TABLE `stock` (  
641   `DomainID` int(11) NOT NULL,  
642   `StockNum` int(11) NOT NULL COMMENT 'The stock number for  
       the item',  
643   `Description` varchar(60) DEFAULT NULL  
644 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
645
```

```
646 --
647 -- Dumping data for table `stock`
648 --
649
650 INSERT INTO `stock` (`DomainID`, `StockNum`, `Description`)
   VALUES
651 (1, 1, 'Chevy Malibu, 6 Cyl, White, FWD'),
652 (1, 2, 'Audi A4, 4 Cyl Turbo, Silver, 4WD'),
653 (1, 3, 'Chevy Equinox, 6 Cyl, Grey, 4WD'),
654 (1, 4, 'Chevy Equinox, 4 Cyl, Black, 2WD '),
655 (1, 5, 'Jeep Wrangler, 4 Cyl, Black, 2WD'),
656 (1, 6, 'Subaru, Forrester, 4Cyl, Silver, 4WD'),
657 (1, 7, 'VW Jetta,6 Cyl, Silver, FWD'),
658 (1, 8, 'Ford Bronco, 4 Cyl, Grey, FWD'),
659 (1, 9, 'Ford Bronco, 4 Cyl, Grey, FWD'),
660 (1, 10, 'Lamborghini Countach, 12 Cyl, Red, RWD'),
661 (1, 11, 'Honda Oddessy, 6 Cyl, Red, FWD'),
662 (2, 12, '2 Bedroom Traditional Condo in Troy'),
663 (2, 13, '4 Bedroom Traditional Colonial in Troy'),
664 (2, 14, '3 Bedroom Modern Ranch in Troy'),
665 (2, 15, 'Historic Lakefront Mansion in Grosse Pointe'),
666 (2, 16, '2 Bedroom Modern Condo in Detroit'),
667 (2, 17, '4 Bedroom Farmhouse in Romeo'),
668 (2, 18, '3 Bedroom Historic Colonial in Troy'),
669 (2, 19, '3 Bedroom Ranch in Romeo'),
670 (2, 20, '3 Bedroom Modern Condo in Royal Oak'),
671 (3, 21, 'Miley Cyrus'),
672 (3, 22, 'Lady Gaga'),
673 (3, 23, 'Rihanna'),
674 (3, 24, 'Natalie Portman'),
675 (3, 25, 'Bridgit Mendler'),
676 (3, 26, 'Ashley Judd'),
677 (3, 27, 'Kourtney Kardashian');
678
679 -- -----
680
681 --
682 -- Stand-in structure for view `stockaffinity`
683 -- (See below for the actual view)
684 --
```

```
685 CREATE TABLE `stockaffinity` (
686   `DomainID` int(11)
687 , `StockNum` int(11)
688 , `StockDesc` varchar(60)
689 , `DisplayOrder` int(11)
690 , `FeatureID` int(11)
691 , `FeatureName` varchar(20)
692 , `StockFeatureValue` int(11)
693 , `FeatureValue` varchar(25)
694 , `CustSelectedValue` int(11)
695 , `StockConfigValue` int(11)
696 , `AffinityPoints` int(11)
697 );
698
699 -- -----
700
701 --
702 -- Table structure for table `stockconfig`
703 --
704
705 CREATE TABLE `stockconfig` (
706   `StockNum` int(11) NOT NULL COMMENT 'Stock numbr for Item
',
707   `FeatureID` int(11) NOT NULL COMMENT 'The Feature being
specified for the item. (This really not needed as it can
be looked up from featureValue -->Feature.Name',
708   `StockFeatureValue` int(11) NOT NULL COMMENT 'The Value
of the feature that this item has \n(e.g. stockNum=1423,
Feature=Color,Value=Red\n'
709 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
710
711 --
712 -- Dumping data for table `stockconfig`
713 --
714
715 INSERT INTO `stockconfig`(`StockNum`, `FeatureID`, `StockFeatureValue`)
VALUES
716 (3, 1, 1),
717 (4, 1, 1),
718 (5, 1, 1),
```

```
719 (6, 1, 1),  
720 (8, 1, 1),  
721 (9, 1, 1),  
722 (1, 1, 2),  
723 (2, 1, 2),  
724 (5, 2, 2),  
725 (7, 1, 2),  
726 (10, 1, 3),  
727 (11, 1, 4),  
728 (1, 2, 5),  
729 (4, 2, 6),  
730 (3, 2, 7),  
731 (8, 2, 7),  
732 (9, 2, 7),  
733 (2, 2, 8),  
734 (6, 2, 8),  
735 (7, 2, 8),  
736 (10, 2, 9),  
737 (11, 2, 9),  
738 (2, 3, 11),  
739 (5, 3, 11),  
740 (6, 3, 11),  
741 (8, 3, 11),  
742 (9, 3, 11),  
743 (1, 3, 12),  
744 (3, 3, 12),  
745 (4, 3, 12),  
746 (7, 3, 12),  
747 (11, 3, 12),  
748 (10, 3, 14),  
749 (1, 4, 15),  
750 (3, 4, 15),  
751 (4, 4, 15),  
752 (5, 4, 15),  
753 (6, 4, 15),  
754 (8, 4, 15),  
755 (11, 4, 15),  
756 (2, 4, 16),  
757 (7, 4, 16),  
758 (9, 4, 16),
```

```
759 (10, 4, 16),  
760 (1, 5, 17),  
761 (7, 5, 17),  
762 (11, 5, 17),  
763 (10, 5, 18),  
764 (2, 5, 19),  
765 (3, 5, 19),  
766 (4, 6, 19),  
767 (5, 5, 19),  
768 (6, 5, 19),  
769 (8, 5, 19),  
770 (9, 5, 19),  
771 (12, 6, 20),  
772 (16, 6, 20),  
773 (20, 6, 20),  
774 (14, 6, 21),  
775 (19, 6, 21),  
776 (13, 6, 22),  
777 (17, 6, 22),  
778 (18, 6, 22),  
779 (15, 6, 23),  
780 (12, 7, 24),  
781 (16, 7, 24),  
782 (14, 7, 25),  
783 (18, 7, 25),  
784 (19, 7, 25),  
785 (20, 7, 25),  
786 (13, 7, 26),  
787 (15, 7, 26),  
788 (17, 7, 26),  
789 (14, 8, 27),  
790 (16, 8, 27),  
791 (20, 8, 27),  
792 (12, 8, 28),  
793 (13, 8, 28),  
794 (17, 8, 28),  
795 (19, 8, 28),  
796 (15, 8, 29),  
797 (18, 8, 29),  
798 (16, 9, 30),
```

```
799 (20, 9, 30),  
800 (12, 9, 31),  
801 (13, 9, 31),  
802 (14, 9, 31),  
803 (18, 9, 31),  
804 (17, 9, 32),  
805 (19, 9, 32),  
806 (15, 9, 33),  
807 (21, 10, 34),  
808 (25, 10, 34),  
809 (22, 10, 35),  
810 (23, 10, 35),  
811 (24, 10, 36),  
812 (27, 10, 36),  
813 (26, 10, 37),  
814 (24, 11, 38),  
815 (25, 11, 38),  
816 (26, 11, 39),  
817 (27, 11, 39),  
818 (22, 11, 40),  
819 (21, 11, 41),  
820 (23, 11, 41),  
821 (25, 12, 42),  
822 (26, 12, 42),  
823 (2, 12, 43),  
824 (24, 12, 43),  
825 (27, 12, 43),  
826 (21, 12, 44),  
827 (23, 12, 44);  
828  
829 -- -----  
830  
831 --  
832 -- Table structure for table `stockmatch`  
833 --  
834  
835 CREATE TABLE `stockmatch` (  
836   `DomainID` int(11) NOT NULL,  
837   `CustomerID` int(11) NOT NULL,  
838   `StockNum` int(11) NOT NULL COMMENT 'The stock number for
```

```

838 the item,
839   `StockDesc` varchar(60) DEFAULT NULL,
840   `TotalPoints` decimal(42,0) DEFAULT NULL
841 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
842
843 --
844 -- Dumping data for table `stockmatch`
845 --
846
847 INSERT INTO `stockmatch` (`DomainID`, `CustomerID`, `StockNum`, `StockDesc`, `TotalPoints`) VALUES
848 (3, 46, 25, 'Bridgit Mendler', '30'),
849 (3, 46, 24, 'Natalie Portman', '26'),
850 (3, 46, 26, 'Ashley Judd', '24'),
851 (3, 46, 27, 'Kourtney Kardashian', '20'),
852 (3, 46, 22, 'Lady Gaga', '4'),
853 (3, 46, 21, 'Miley Cyrus', '2'),
854 (3, 46, 23, 'Rihanna', '2');
855
856 -- -----
857
858 --
859 -- Table structure for table `stockpoints`
860 --
861
862 CREATE TABLE `stockpoints` (
863   `DomainID` int(11) NOT NULL,
864   `CustomerID` int(11) NOT NULL,
865   `StockNum` int(11) NOT NULL COMMENT 'The stock number for
     the item',
866   `StockDesc` varchar(60) DEFAULT NULL,
867   `FeatureID` int(11) NOT NULL COMMENT 'The Feature being
     specified for the item. (This really not needed as it can
     be looked up from featureValue -->Feature.Name',
868   `StockFeatureValue` int(11) NOT NULL COMMENT 'The Value
     of the feature that this item has \n(e.g. stockNum=1423,
     Feature=Color,Value=Red\n',
869   `FeatureName` varchar(20) NOT NULL COMMENT 'Name of the
     feature( i.e: "Body Style'', Color, Transmission, Engine,
     Wheel size)',

```

```

870   `DisplayOrder` int(11) NOT NULL,
871   `FeatureValue` varchar(25) NOT NULL COMMENT 'A text
      description for the feature (i.e.: Red, Yellow, ''5sp
      manual'', ''18 inch black rims'', ''Turbocharged V6 2.5L''
      , ''Long range battery pack'',
872   `CustSelectedValue` int(11) NOT NULL COMMENT 'Value that
      an affinity is being define for. (Value ID:3 --> Red) ',
873   `StockConfigValue` int(11) NOT NULL COMMENT 'Value for
      which an affinity is being defiend for. (eg
      AffinityValueID: 33-> Orange)',
874   `AffinityPoints` int(11) DEFAULT NULL COMMENT 'The number
      of Points awarded for an inventory item haveing the
      AffinityValue when the cusotmer chooses SelectedValue ',
875   `DesiredFeatureValue` int(11) DEFAULT NULL COMMENT 'This
      references the key in FeatureValue table ',
876   `Multiplier` int(11) DEFAULT NULL COMMENT 'Multiplier
      value for the feature, that is how important the feature is
      to the customer. Not important would have low value,
      important features would have highe value. Will need to
      do analysis to determine the right range. (maybe 1-5?, 1-10
      ?, 1-20?, ....',
877   `WeightedAffinityPoints` bigint(21) DEFAULT NULL
878 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
879
880 --
881 -- Dumping data for table `stockpoints`
882 --
883
884 INSERT INTO `stockpoints`(`DomainID`, `CustomerID`, ``
885 StockNum`, `StockDesc`, `FeatureID`, `StockFeatureValue`, ``
886 FeatureName`, `DisplayOrder`, `FeatureValue`, ``
887 CustSelectedValue`, `StockConfigValue`, `AffinityPoints`, ``
888 DesiredFeatureValue`, `Multiplier`, `WeightedAffinityPoints
     `) VALUES
889 (3, 46, 21, 'Miley Cyrus', 11, 41, 'Education', 2, 'High
      School', 38, 41, 0, 38, 2, 0),
890 (3, 46, 21, 'Miley Cyrus', 12, 44, 'Hobby', 3, 'Rockclimbing', 42, 44, 2, 42, 1, 2),
891 (3, 46, 22, 'Lady Gaga', 11, 40, 'Education', 2, 'Trade
      School', 38, 40, 2, 38, 2, 4),

```

```

888 (3, 46, 23, 'Rihanna', 11, 41, 'Education', 2, 'High School
     ', 38, 41, 0, 38, 2, 0),
889 (3, 46, 23, 'Rihanna', 12, 44, 'Hobby', 3, 'Rockclimbing',
     42, 44, 2, 42, 1, 2),
890 (3, 46, 24, 'Natalie Portman', 11, 38, 'Education', 2, '
Post-Grad', 38, 38, 10, 38, 2, 20),
891 (3, 46, 24, 'Natalie Portman', 12, 43, 'Hobby', 3, 'Tennis'
     , 42, 43, 6, 42, 1, 6),
892 (3, 46, 25, 'Bridgit Mendler', 11, 38, 'Education', 2, '
Post-Grad', 38, 38, 10, 38, 2, 20),
893 (3, 46, 25, 'Bridgit Mendler', 12, 42, 'Hobby', 3, 'Reading
     ', 42, 42, 10, 42, 1, 10),
894 (3, 46, 26, 'Ashley Judd', 11, 39, 'Education', 2, 'College
     ', 38, 39, 7, 38, 2, 14),
895 (3, 46, 26, 'Ashley Judd', 12, 42, 'Hobby', 3, 'Reading',
     42, 42, 10, 42, 1, 10),
896 (3, 46, 27, 'Kourtney Kardashian', 11, 39, 'Education', 2,
     'College', 38, 39, 7, 38, 2, 14),
897 (3, 46, 27, 'Kourtney Kardashian', 12, 43, 'Hobby', 3, '
Tennis', 42, 43, 6, 42, 1, 6);

898
899 -- -----
900
901 --
902 -- Structure for view `stockaffinity`
903 --
904 DROP TABLE IF EXISTS `stockaffinity`;
905
906 CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL
SECURITY DEFINER VIEW `stockaffinity` AS SELECT `s`.`
DomainID` AS `DomainID`, `s`.`StockNum` AS `StockNum`, `s
`.`Description` AS `StockDesc`, `f`.`DisplayOrder` AS `
DisplayOrder`, `cfg`.`FeatureID` AS `FeatureID`, `f`.`
FeatureName` AS `FeatureName`, `cfg`.`StockFeatureValue` AS
`StockFeatureValue`, `fv`.`FeatureValue` AS `FeatureValue
`, `a`.`CustSelectedValue` AS `CustSelectedValue`, `a`.`
StockConfigValue` AS `StockConfigValue`, `a`.`
AffinityPoints` AS `AffinityPoints` FROM ((((`stock` `s`
join `stockconfig` `cfg` on(`s`.`StockNum` = `cfg`.`
StockNum`)) join `feature` `f` on(`f`.`FeatureID` = `cfg`.`

```

```
906 FeatureID`)) join `featvalue` `fv` on(`fv`.`FeatureValueID
` = `cfg`.`StockFeatureValue`)) join `affinity` `a` on(`a
`.`StockConfigValue` = `cfg`.`StockFeatureValue`)) ORDER BY
`s`.`DomainID` ASC, `s`.`StockNum` ASC, `fv`.`FeatureID`
ASC ;
907
908 --
909 -- Indexes for dumped tables
910 --
911 --
912 --
913 -- Indexes for table `affinity`
914 --
915 ALTER TABLE `affinity`
916   ADD PRIMARY KEY (`CustSelectedValue`, `StockConfigValue`),
917   ADD KEY `fk_AffinityValue_idx` (`StockConfigValue`);
918
919 --
920 -- Indexes for table `custmatch`
921 --
922 ALTER TABLE `custmatch`
923   ADD PRIMARY KEY (`CustomerID`, `StockNum`, `DomainID`);
924
925 --
926 -- Indexes for table `customer`
927 --
928 ALTER TABLE `customer`
929   ADD PRIMARY KEY (`CustomerID`);
930
931 --
932 -- Indexes for table `custprofile`
933 --
934 ALTER TABLE `custprofile`
935   ADD PRIMARY KEY (`CustomerID`, `FeatureID`, `DomainID`),
936   ADD KEY `fk_Domain_idx` (`DomainID`);
937
938 --
939 -- Indexes for table `domain`
940 --
941 ALTER TABLE `domain`
```

```
942 ADD PRIMARY KEY (`DomainID`);  
943  
944 --  
945 -- Indexes for table `feature`  
946 --  
947 ALTER TABLE `feature`  
948   ADD PRIMARY KEY (`FeatureID`),  
949   ADD KEY `idx_Domain` (`DomainID`);  
950  
951 --  
952 -- Indexes for table `featvalue`  
953 --  
954 ALTER TABLE `featvalue`  
955   ADD PRIMARY KEY (`FeatureValueID`, `FeatureID`),  
956   ADD KEY `fk_AvailableValues_idx` (`FeatureID`);  
957  
958 --  
959 -- Indexes for table `stock`  
960 --  
961 ALTER TABLE `stock`  
962   ADD PRIMARY KEY (`StockNum`, `DomainID`),  
963   ADD KEY `fk_StockDomain_idx` (`DomainID`);  
964  
965 --  
966 -- Indexes for table `stockconfig`  
967 --  
968 ALTER TABLE `stockconfig`  
969   ADD PRIMARY KEY (`StockNum`, `FeatureID`),  
970   ADD KEY `fk_StockFeatureValue_idx` (`StockFeatureValue`);  
971  
972 --  
973 -- AUTO_INCREMENT for dumped tables  
974 --  
975  
976 --  
977 -- AUTO_INCREMENT for table `custmatch`  
978 --  
979 ALTER TABLE `custmatch`  
980   MODIFY `CustomerID` int(11) NOT NULL AUTO_INCREMENT,  
     AUTO_INCREMENT=47;
```

```
981
982 --
983 -- AUTO_INCREMENT for table `customer`
984 --
985 ALTER TABLE `customer`
986   MODIFY `CustomerID` int(11) NOT NULL AUTO_INCREMENT
987   COMMENT 'Key for customer table\n', AUTO_INCREMENT=47;
988 --
989 -- AUTO_INCREMENT for table `featvalue`
990 --
991 ALTER TABLE `featvalue`
992   MODIFY `FeatureValueID` int(11) NOT NULL AUTO_INCREMENT
993   COMMENT 'Key for table', AUTO_INCREMENT=45;
994 --
995 -- AUTO_INCREMENT for table `stock`
996 --
997 ALTER TABLE `stock`
998   MODIFY `StockNum` int(11) NOT NULL AUTO_INCREMENT
999   COMMENT 'The stock number for the item', AUTO_INCREMENT=28
  ;
1000 --
1001 -- Constraints for dumped tables
1002 --
1003
1004 --
1005 -- Constraints for table `affinity`
1006 --
1007 ALTER TABLE `affinity`
1008   ADD CONSTRAINT `fk_AffinityValue` FOREIGN KEY (`StockConfigValue`)
1009     REFERENCES `featvalue`(`FeatureValueID`)
1010     ON DELETE NO ACTION ON UPDATE NO ACTION,
1011   ADD CONSTRAINT `fk_SlectedValue` FOREIGN KEY (`CustSelectedValue`)
1012     REFERENCES `featvalue`(`FeatureValueID`)
1013     ON DELETE NO ACTION ON UPDATE NO ACTION;
1014
1015 --
1016 -- Constraints for table `custmatch`
```

```
1013 --
1014 ALTER TABLE `custmatch`  
1015   ADD CONSTRAINT `fk_CustMatchCustID` FOREIGN KEY (`  
    CustomerID`) REFERENCES `customer` (`CustomerID`) ON  
    DELETE NO ACTION ON UPDATE NO ACTION;  
1016
1017 --
1018 -- Constraints for table `custprofile`  
1019 --
1020 ALTER TABLE `custprofile`  
1021   ADD CONSTRAINT `fk_CustProfileCustID` FOREIGN KEY (`  
    CustomerID`) REFERENCES `customer` (`CustomerID`) ON  
    DELETE NO ACTION ON UPDATE NO ACTION,  
1022   ADD CONSTRAINT `fk_Domain` FOREIGN KEY (`DomainID`)  
    REFERENCES `domain` (`DomainID`) ON DELETE NO ACTION ON  
    UPDATE NO ACTION;  
1023
1024 --
1025 -- Constraints for table `feature`  
1026 --
1027 ALTER TABLE `feature`  
1028   ADD CONSTRAINT `fk_FeatDomain` FOREIGN KEY (`DomainID`)  
    REFERENCES `domain` (`DomainID`) ON DELETE NO ACTION ON  
    UPDATE NO ACTION;  
1029
1030 --
1031 -- Constraints for table `featvalue`  
1032 --
1033 ALTER TABLE `featvalue`  
1034   ADD CONSTRAINT `fk_AvailableValues` FOREIGN KEY (`  
    FeatureID`) REFERENCES `feature` (`FeatureID`) ON DELETE  
    NO ACTION ON UPDATE NO ACTION;  
1035
1036 --
1037 -- Constraints for table `stock`  
1038 --
1039 ALTER TABLE `stock`  
1040   ADD CONSTRAINT `fk_StockDomain` FOREIGN KEY (`DomainID`)  
    REFERENCES `domain` (`DomainID`) ON DELETE NO ACTION ON  
    UPDATE NO ACTION;
```

```
1041
1042 --
1043 -- Constraints for table `stockconfig`
1044 --
1045 ALTER TABLE `stockconfig`
1046   ADD CONSTRAINT `fk_StockFeatureValue` FOREIGN KEY (`StockFeatureValue`)
      REFERENCES `featvalue` (`FeatureValueID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
1047   ADD CONSTRAINT `fk_StockNum` FOREIGN KEY (`StockNum`)
      REFERENCES `stock` (`StockNum`) ON DELETE NO ACTION ON
      UPDATE NO ACTION;
1048 COMMIT;
1049
1050 /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
1051 /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
1052 /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
1053
```

```
1 <?php
2
3 session_start();
4 $servername = "localhost";
5 $username = "root";
6 $password = "oakland";
7 $dbname = "csiproject";
8
9 if($_SERVER["REQUEST_METHOD"] == "POST") {
10     $custName = $_POST['custNameIn'];
11
12     $custDomain = $_POST['selectCustDomainIn'];
13     //echo "<h1>Customer Domain: ";
14     //echo $custDomain;
15     //echo "</h1>";
16 }
17 else {
18     echo 'No data found or errors';
19 }
20
21 // Create connection
22 $conn = new mysqli($servername, $username, $password,
23                     $dbname);
24 // Check connection
25 if ($conn->connect_error) {
26     die("Connection failed: " . $conn->connect_error);
27 }
28
29 $sqlInsertCustProfile = "INSERT INTO Customer (CustomerID,
30                                         CustName) VALUES (NULL, '$custName')";
31 if ($conn->query($sqlInsertCustProfile) === TRUE) {
32     //echo "New Record Created Successfully";
33     //echo $sqlInsertCustProfile;
34 } else {
35     echo "Error: " . $sqlInsertCustProfile . "<br>" . $conn
36     ->error;
37 }
```

```
38 <!DOCTYPE html>
39 <html lang="en">
40     <meta charset="UTF-8">
41     <title>Profile Builder</title>
42     <meta name="viewport" content="width=device-width,
initial-scale=1">
43     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css" integrity="sha384-zCkKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/eSrtxUkn" crossorigin="anonymous">
44     <body>
45         <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
46             <a class="navbar-brand" href="index.php">Consumer Matching Engine</a>
47             <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
48                 <span class="navbar-toggler-icon"></span>
49             </button>
50             <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
51                 <div class="navbar-nav">
52                     <a class="nav-link active" href="newcust.php">Enter CME</a>
53                     <a class="nav-link" href="index.php">About CME</a>
54                 </div>
55             </div>
56         </nav>
57         <div class="container">
58             <form method="post" action="matchResults.php">
59                 <h3>Create Customer Profile</h3>
60                 <p class="lead">Customer Name: <?php echo $custName ?></p>
61                 <p class="lead">Customer Domain: <?php echo $custDomain ?></p>
62                 <input type="hidden" id="custDomainH" name="
```

```

62 custDomainH" value="<?php echo $custDomain ?>">
63             <input type="hidden" id="custNameH" name=
64             custNameH" value="<?php echo $custName ?>">
65             <div class="form-group">
66                 <!--<label for="selectDomain">Select
67                 Matching Domain</label>-->
68                 <?php
69                 $sqlFeature = "SELECT FeatureID, DomainID,
70                 FeatureName FROM Feature NATURAL JOIN Domain WHERE
71                 DomainName = '$custDomain'";
72                 //echo "<h1>" . $sqlFeature . "</h1>";
73                 $qFeatureResult = $conn->query($sqlFeature
74 );
75
76                 if ($qFeatureResult->num_rows > 0) {
77                     //reference: https://www.w3schools.com/
79                     \$arrayFeatureNames = array\(\);
80                     while \(\$qFeatureResultRow =
81                     \$qFeatureResult->fetch\_assoc\(\)\) {
82                         echo '<div class="row">';
83                         echo "<div class='col-md-3'><p>" .
84                         \$qFeatureResultRow\["FeatureName"\] . "</p>" ;
85                         echo '</div><div class="col-md-3">' .
86                         echo "<input type='hidden' id='"
87                         \$qFeatureResultRow\["FeatureName"\] . "ID' name='"
88                         \$qFeatureResultRow\["FeatureName"\] . "ID' value='"
89                         \$qFeatureResultRow\["FeatureID"\] . "'>" ;
90                         echo "<select class='form-control'
91                         id='"
92                         \$qFeatureResultRow\["FeatureName"\] . "' name='"
93                         \$qFeatureResultRow\["FeatureName"\] . "'>" ;
94                         \$sqlFeatureValue = "SELECT \* FROM
95                         Feature NATURAL JOIN Domain NATURAL JOIN FeatValue WHERE
96                         DomainName = '\$custDomain' AND FeatureName = '{
97                         \$qFeatureResultRow\["FeatureName"\]}'";
98                         \$qFeatureValueResult = \$conn->query
99                         \(\$sqlFeatureValue\);
100                         if \(\$qFeatureValueResult->num\_rows

```

```
83 > 0) {  
84             while ($qFeatureValueResultRow  
= $qFeatureValueResult->fetch_assoc()) {  
85                     echo "<option>" .  
$qFeatureValueResultRow["FeatureValue"] . "</option>";  
86                 }  
87             }  
88             /*  
89             echo "</select></div><div class='  
col-md-6'><div class='row'><div class='col-md-4'>";  
90             echo "<input class='form-check-  
input' type='radio' name=''" . $qFeatureResultRow["  
FeatureName"] . "PriorityH' value=''" . $qFeatureResultRow["  
FeatureName"] . "PriorityH'>High</div>";  
91             echo "<div class='col-md-4'><input  
class='form-check-input' type='radio' name=''" .  
$qFeatureResultRow["FeatureName"] . "PriorityM'>Medium</div  
>";  
92             echo "<div class='col-md-4'><input  
class='form-check-input' type='radio' name=''" .  
$qFeatureResultRow["FeatureName"] . "PriorityM'>Low</div></  
div></div>";  
93             */  
94             echo "</select></div>";  
95             echo "<div class='col-md-3'><select  
class='form-control' id=''" . $qFeatureResultRow["  
FeatureName"] . "Priority' name=''" . $qFeatureResultRow["  
FeatureName"] . "Priority'>";  
96             echo "<option value='1'>High</  
option>";  
97             echo "<option value='2'>Medium</  
option>";  
98             echo "<option value='3'>Low</option  
>";  
99             echo "</select></div></div>";  
100            }  
101        }  
102    }  
103    ?>  
104    <input class="btn btn-primary" type="submit"
```

```
104 " name="submitProfileBuilder">
105         </div>
106     </form>
107     </div>
108     <script src="https://cdn.jsdelivr.net/npm/jquery@3.
109      5.1/dist/jquery.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+0GpamoFVy38MVBN+E+IbbVYUew+
OrCXaRkfj" crossorigin="anonymous"></script>
110     <script src="https://cdn.jsdelivr.net/npm/bootstrap
111      @4.6.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-
fQybJgWLrvvRgtW6bFLB7jaZrFsaBXjsOMm/tB9LTS580NXgqbR9W8oWht/
amnpF" crossorigin="anonymous"></script>
112     </body>
113 </html>
```