THE MINISTRY OF EDUCATION AND YOUTH OF THE REPUBLIC OF MOLDOVA

TECHNICAL UNIVERSITY OF MOLDOVA

CIM FACULTY

REPORT

on Web Technologies

Laboratory Work No.1

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Chișinău 09 martie 2018

Theme: Simple Quiz in JavaScript

Task:

Develop a simple quiz in JavaScript on a selected theme.

Solution

As a theme I selected „Basic notions about MSSQL”.

Our quiz is divided in three files

Quiz.html

```
<html>
<head>
<title>SQL Quiz</title>
<link rel="stylesheet" type="text/css" href="Quiz.css">
<script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
<script src="Quiz.js"></script>
</head>
<body>
  <h2 class="quizHeader">Take a Quiz!</h2>

       <table style="width:1200px">
       <tr>
         <td>
              <div>
                     <p class="question" id="jsn1">1.  What does SQL stand for?</p>

              <ul>
              <input class="answer" type="radio" name="q1" value="1">
               <label id="correctString1"> Structured Query Language</label>
              <br>
               <input class="answer" type="radio" name="q1" value="0">
               <label>Structured Question Language</label>
               <br>
               <input class="answer" type="radio" name="q1" value="0">
               <label> Strong Question Language</label>
               <br>
               <input class="answer" type="radio" name="q1" value="0">
               <label> Simple Question Language</label>
              </ul>
              </div>
                     <script>
                       var Question = document.getElementById('jsn1').innerHTML;
                       var Answer = document.getElementById('correctString1').innerHTML
 var JsonData='['+ JSON.stringify({"question ":  Question, "answer": Answer });

                     </script>
         </td>
         <td>
              <div>
                     <p class="question" id="jsn2">2.Which of the following is not true about the
COALESCE function?</p>

              <ul>
               <input class="answer" type="radio" name="q2" value="0">
               <label>It takes multiple alternate values.</label>
               <br>
               <input class="answer" type="radio" name="q2" value="1">
               <label id="correctString2">It returns the first value in the parameter list if it
is null.</label>
               <br>
               <input class="answer" type="radio" name="q2" value="0">
               <label>It returns the first non-null expression in the parameter list.</label>
               <br>
               <input class="answer" type="radio" name="q2" value="0">
               <label>None of the above</label>
              </ul>
```

```
              </div>
<script>
                      var Question = document.getElementById('jsn2').innerHTML;
                      var Answer = document.getElementById('correctString2').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
       </tr>
       <tr>
         <td>
              <div>
                     <p class="question" id="jsn3">3.Which of the following is not true about the
ON clause?</p>

              <ul>
               <input class="answer" type="radio" name="q3" value="0">
               <label>ON clause specifies conditions or specify columns to join.</label>
               <br>
               <input class="answer" type="radio" name="q3" value="1">
               <label id="correctString3"> ON clause does not allow three way joins.</label>
               <br>
               <input class="answer" type="radio" name="q3" value="0">
               <label>ON clause makes the query easy to understand.</label>
               <br>
               <input class="answer" type="radio" name="q3" value="0">
               <label> None of the above.</label>
              </ul>
              </div>
<script>
                     var Question = document.getElementById('jsn3').innerHTML;
                      var Answer = document.getElementById('correctString3').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
         <td>
              <div>
                     <p class="question" id="jsn4">4. Which of the following is not true about
multiple-row subqueries?</p>

              <ul>
               <input class="answer" type="radio" name="q4" value="0">
               <label>Multiple  row  subqueries  return  multiple  rows  from  the  outer  SELECT
statement.</label>
               <br>
               <input class="answer" type="radio" name="q4" value="1">
               <label id="correctString4">Multiple row subqueries return multiple rows from the
inner SELECT statement.</label>
               <br>
               <input class="answer" type="radio" name="q4" value="0">
               <label>Multiple row subqueries use multiple-row comparison operators.</label>
               <br>
               <input class="answer" type="radio" name="q4" value="0">
               <label>All of the above.</label>
              </ul>
              </div>
<script>
                     var Question = document.getElementById('jsn4').innerHTML;
                      var Answer = document.getElementById('correctString4').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

</script>
         </td>
       </tr>

       <tr>
         <td>
              <div>
                     <p class="question" id="jsn5">5.Which SQL statement is used to extract data
from a database?</p>
```

```
              <ul>
              <input class="answer" type="radio" name="q5" value="1">
               <label id="correctString5">SELECT</label>
              <br>
               <input class="answer" type="radio" name="q5" value="0">
               <label>EXTRACT</label>
               <br>
               <input class="answer" type="radio" name="q5" value="0">
               <label>OPEN</label>
               <br>
               <input class="answer" type="radio" name="q5" value="0">
               <label>GET</label>
              </ul>
              </div>
                     <script>
                     var Question = document.getElementById('jsn5').innerHTML;
                       var Answer = document.getElementById('correctString5').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

                     </script>
         </td>
         <td>
              <div>
                     <p class="question" id="jsn6">6.Which of the following is not true about use
of a database view?</p>

              <ul>
               <input class="answer" type="radio" name="q6" value="0">
               <label>It provides data independence.</label>
               <br>
               <input class="answer" type="radio" name="q6" value="1">
               <label id="correctString6">It prevents different views of same data.</label>
               <br>
               <input class="answer" type="radio" name="q6" value="0">
               <label> It makes queries easy.</label>
               <br>
               <input class="answer" type="radio" name="q6" value="0">
               <label>It restricts data access.</label>
              </ul>
              </div>
<script>
                       var Question = document.getElementById('jsn6').innerHTML;
                       var Answer = document.getElementById('correctString6').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
       </tr>
       <tr>
         <td>
              <div>
                     <p class="question" id="jsn7">7.Which SQL statement is used to update data in
a database?</p>

              <ul>
               <input class="answer" type="radio" name="q7" value="0">
               <label>SAVE</label>
               <br>
               <input class="answer" type="radio" name="q7" value="1">
               <label id="correctString7">UPDATE</label>
               <br>
               <input class="answer" type="radio" name="q7" value="0">
               <label>MODIFY</label>
               <br>
               <input class="answer" type="radio" name="q7" value="0">
               <label>SAVE AS</label>
              </ul>
              </div>
<script>
```

```
                    var Question = document.getElementById('jsn7').innerHTML;
                      var Answer = document.getElementById('correctString7').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
         <td>
              <div>
                     <p class="question" id="jsn8">8. Which of the following code will delete a
sequence named loc_seq?</p>

              <ul>
               <input class="answer" type="radio" name="q8" value="0">
               <label>delete sequence loc-seq;</label>
               <br>
               <input class="answer" type="radio" name="q8" value="1">
               <label id="correctString8"> drop sequence loc_seq;</label>
               <br>
               <input class="answer" type="radio" name="q8" value="0">
               <label>delete primary key loc_sec;</label>
               <br>
               <input class="answer" type="radio" name="q8" value="0">
               <label>drop primary key loc_sec;</label>
              </ul>
              </div>
         </td>
       </tr>
             <script>
      var Question = document.getElementById('jsn8').innerHTML;
                      var Answer = document.getElementById('correctString8').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });


</script>

       <tr>
         <td>
              <div>
                     <p class="question" id="jsn9">9.Which of the following code would create a
role named student_admin?</p>

              <ul>
              <input class="answer" type="radio" name="q9" value="1">
               <label id="correctString9">CREATE ROLE student_admin;</label>
              <br>
               <input class="answer" type="radio" name="q9" value="0">
               <label>GRANT student_admin;</label>
               <br>
               <input class="answer" type="radio" name="q9" value="0">
               <label>CREATE student_admin;</label>
               <br>
               <input class="answer" type="radio" name="q9" value="0">
               <label>DELETE student_admin;</label>
              </ul>
              </div>
                     <script>
                     var Question = document.getElementById('jsn9').innerHTML;
                       var Answer = document.getElementById('correctString9').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

                     </script>
         </td>
         <td>
              <div>
                     <p class="question" id="jsn10">10.Which SQL statement is used to return only
different values?</p>

              <ul>
               <input class="answer" type="radio" name="q10" value="0">
               <label> SELECT DIFFERENT</label>
```

```
                <br>
                <input class="answer" type="radio" name="q10" value="1">
                <label id="correctString10"> SELECT DISTINCT</label>
                <br>
                <input class="answer" type="radio" name="q10" value="0">
                <label> SELECT UNIQUE</label>
                <br>
                <input class="answer" type="radio" name="q10" value="0">
                <label>None of the above</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn10').innerHTML;
                        var Answer = document.getElementById('correctString10').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
       </tr>
       <tr>
         <td>
              <div>
                    <p class="question" id="jsn11">11. Choose the incorrect option about the sql
server index</p>

               <ul>
                <input class="answer" type="radio" name="q11" value="0">
                <label>Clustered indexes and non-clustered indexes</label>
                <br>
                <input class="answer" type="radio" name="q11" value="1">
                <label id="correctString11">More than one clustered index on a table</label>
                <br>
                <input class="answer" type="radio" name="q11" value="0">
                <label>Both types use B-TREE for searching data</label>
                <br>
                <input class="answer" type="radio" name="q11" value="0">
                <label> Only one clustered index on a table</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn11').innerHTML;
                        var Answer = document.getElementById('correctString11').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
         <td>
              <div>
                   <p class="question" id="jsn12">12.Which of the following DBCC command is used
to see when was the last time the index rebuild?</p>

               <ul>
                <input class="answer" type="radio" name="q12" value="0">
                <label>DBCC DBREINDEX</label>
                <br>
                <input class="answer" type="radio" name="q12" value="1">
                <label id="correctString12">DBCC SHOW_STATISTICS</label>
                <br>
                <input class="answer" type="radio" name="q12" value="0">
                <label>DBCC SHOWCONFIG</label>
                <br>
                <input class="answer" type="radio" name="q12" value="0">
                <label>None of the above</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn12').innerHTML;
                        var Answer = document.getElementById('correctString12').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
```

```
       </tr>

       <tr>
         <td>
              <div>
                     <p class="question" id="jsn13">13.With SQL, how can you insert a new record
into the "Persons" table?</p>

              <ul>
              <input class="answer" type="radio" name="q13" value="1">
               <label id="correctString13"> INSERT INTO Persons VALUES ('Jimmy', 'Jackson')</label>
              <br>
               <input class="answer" type="radio" name="q13" value="0">
               <label> INSERT INTO Persons(Name) VALUES ('Jimmy', 'Jackson')</label>
               <br>
               <input class="answer" type="radio" name="q13" value="0">
               <label>INSERT VALUES ('Jimmy', 'Jackson') INTO Persons</label>
               <br>
               <input class="answer" type="radio" name="q13" value="0">
               <label> INSERT ('Jimmy', 'Jackson') INTO Persons</label>
              </ul>
              </div>
                     <script>
                     var Question = document.getElementById('jsn13').innerHTML;
                       var Answer = document.getElementById('correctString13').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

                     </script>
         </td>
         <td>
              <div>
                     <p  class="question"  id="jsn14">14.Which  type  of  integrity  preserves  the
defined relationship between tables when records are entered or deleted?</p>

              <ul>
               <input class="answer" type="radio" name="q14" value="0">
               <label> Entity integrity</label>
               <br>
               <input class="answer" type="radio" name="q14" value="1">
               <label id="correctString14">Referential integrity</label>
               <br>
               <input class="answer" type="radio" name="q14" value="0">
               <label>User-defined integrity</label>
               <br>
               <input class="answer" type="radio" name="q14" value="0">
               <label>Domain integrity</label>
              </ul>
              </div>
<script>
                       var Question = document.getElementById('jsn14').innerHTML;
                       var Answer = document.getElementById('correctString14').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
         </td>
       </tr>
       <tr>
         <td>
              <div>
                     <p class="question" id="jsn15">15.Which SQL statement is used to delete data
from a database?</p>

              <ul>
               <input class="answer" type="radio" name="q15" value="0">
               <label>REMOVE</label>
               <br>
               <input class="answer" type="radio" name="q15" value="1">
               <label id="correctString15">DELETE</label>
               <br>
               <input class="answer" type="radio" name="q15" value="0">
```

```
                <label>COLLAPSE</label>
                <br>
                <input class="answer" type="radio" name="q15" value="0">
                <label>REMOVE AS</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn15').innerHTML;
                        var Answer = document.getElementById('correctString15').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });
</script>
          </td>
          <td>
               <div>
                      <p class="question" id="jsn16">16. How many Primary key constraints can be
included in a table definition?</p>

               <ul>
                <input class="answer" type="radio" name="q16" value="0">
                <label>Two</label>
                <br>
                <input class="answer" type="radio" name="q16" value="1">
                <label id="correctString16">One</label>
                <br>
                <input class="answer" type="radio" name="q16" value="0">
                <label>Three</label>
                <br>
                <input class="answer" type="radio" name="q16" value="0">
                <label>Many</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn16').innerHTML;
                        var Answer = document.getElementById('correctString16').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

</script>
          </td>
        </tr>
        <tr>
          <td>
               <div>
                      <p class="question" id="jsn17">17.Which SQL statement is used to insert new
data in a database?</p>

               <ul>
               <input class="answer" type="radio" name="q17" value="1">
                <label id="correctString17">INSERT INTO</label>
               <br>
                <input class="answer" type="radio" name="q17" value="0">
                <label>ADD NEW</label>
                <br>
                <input class="answer" type="radio" name="q17" value="0">
                <label>ADD RECORD</label>
                <br>
                <input class="answer" type="radio" name="q17" value="0">
                <label>INSERT NEW</label>
               </ul>
               </div>
                      <script>
                      var Question = document.getElementById('jsn17').innerHTML;
                        var Answer = document.getElementById('correctString17').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });


                      </script>
          </td>
          <td>
               <div>
```

```
                    <p class="question" id="jsn18">Which statement is used to delete all rows in
a table without having the action logged?</p>

               <ul>
                <input class="answer" type="radio" name="q18" value="0">
                <label>Delete table statement</label>
                <br>
                <input class="answer" type="radio" name="q18" value="1">
                <label id="correctString18">Truncate table statement</label>
                <br>
                <input class="answer" type="radio" name="q18" value="0">
                <label>Drop table statement</label>
                <br>
                <input class="answer" type="radio" name="q18" value="0">
                <label>None of the above</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn18').innerHTML;
                        var Answer = document.getElementById('correctString18').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

</script>
         </td>
       </tr>
       <tr>
         <td>
               <div>
                      <p class="question" id="jsn19">19.Tools for importing and exporting data in
sql server</p>

               <ul>
                <input class="answer" type="radio" name="q19" value="0">
                <label>bcp command utility</label>
                <br>
                <input class="answer" type="radio" name="q19" value="1">
                <label> DTS</label>
                <br>
                <input class="answer" type="radio" name="q19" value="0">
                <label>Bulk inserts</label>
                <br>
                <input class="answer" type="radio" name="q19" value="0">
                <label id="correctString19">ALL of the above</label>
               </ul>
               </div>
<script>
                        var Question = document.getElementById('jsn19').innerHTML;
                        var Answer = document.getElementById('correctString19').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer });

</script>
         </td>
         <td>
               <div>
                      <p class="question" id="jsn20">20. Which SQL keyword is used to sort the
result-set?</p>

               <ul>
                <input class="answer" type="radio" name="q20" value="0">
                <label>Group by</label>
                <br>
                <input class="answer" type="radio" name="q20" value="1">
                <label id="correctString20">Order by</label>
                <br>
                <input class="answer" type="radio" name="q20" value="0">
                <label>Sort</label>
                <br>
                <input class="answer" type="radio" name="q20" value="0">
                <label>Sort by</label>
```

```
              </ul>
              </div>
<script>
                        var Question = document.getElementById('jsn20').innerHTML;
                        var Answer = document.getElementById('correctString20').innerHTML
 var JsonData= JsonData +','+JSON.stringify({"question ":  Question, "answer": Answer })+']';
  console.log(JsonData);
</script>
         </td>
       </tr>







       </table>
<br/>
  <div class="submitter">
          <input class="quizSubmit" id="submitButton" onClick="submitQuiz()"
          type="submit" value="Submit" />
    </div>

<!--show only wrong answers on submit-->
    <div class="quizAnswers" id="correctAnswer1"></div>
    <div class="quizAnswers" id="correctAnswer2"></div>
    <div class="quizAnswers" id="correctAnswer3"></div>
    <div class="quizAnswers" id="correctAnswer4"></div>

    <div class="quizAnswers" id="correctAnswer5"></div>
    <div class="quizAnswers" id="correctAnswer6"></div>
    <div class="quizAnswers" id="correctAnswer7"></div>
    <div class="quizAnswers" id="correctAnswer8"></div>

<div class="quizAnswers" id="correctAnswer9"></div>
    <div class="quizAnswers" id="correctAnswer10"></div>
    <div class="quizAnswers" id="correctAnswer11"></div>
    <div class="quizAnswers" id="correctAnswer12"></div>

<div class="quizAnswers" id="correctAnswer13"></div>
    <div class="quizAnswers" id="correctAnswer14"></div>
    <div class="quizAnswers" id="correctAnswer15"></div>
    <div class="quizAnswers" id="correctAnswer16"></div>

<div class="quizAnswers" id="correctAnswer17"></div>
    <div class="quizAnswers" id="correctAnswer18"></div>
    <div class="quizAnswers" id="correctAnswer19"></div>
    <div class="quizAnswers" id="correctAnswer20"></div>

<!--show score upon submit-->
    <div>
       <h2 class="quizScore" id="userScore"></h2>
    </div>
       </div>

</body>
</html>
```

Quiz.css

```
/* css here */

{
  border: 1px dotted black;
}

p.question {
  font-family: Arial, sans-serif;
         font-size:20px;
  color: #2E2E2E;
  margin-bottom:0px;
```

```
}

h2.quizHeader {
  font-family: Arial, sans-serif;
  font-weight:normal;
  font-size:25px;
  line-height: 27px;
  margin: 24px 0 12px 0;
  padding: 0 0 4px 0;
  border-bottom: 1px solid #a2a2a2;
}

h2.quizScore{
  font-family: Arial, sans-serif;
  font-size:25px;
}

div.quizAnswers{
  font-family: Arial, sans-serif;
  font-size:16px;
  color: #424242;
  padding: 4px 0 4px 0;
}

label {
  font-family: Arial, sans-serif;
  font-size:14px;
  color: #424242;
  vertical-align:top;
}

input.answer[type="radio"] {
  margin-bottom: 10px;
}

input.quizSubmit[type="submit"] {
  -webkit-background-clip: border-box;
  -webkit-background-origin: padding-box;
  -webkit-background-size: auto;
  -webkit-transition-delay: 0s, 0s;
  -webkit-transition-duration: 0.2s, 0.2s;
  -webkit-transition-property: color, background-color;
  -webkit-transition-timing-function: ease, ease;
  box-shadow: rgba(0, 0, 0, 0.498039) 0px 0px 5px 0px;
  color: #ffffff;
  background-color: #c30b0a;
  margin: 0;
  border: 0;
  outline: 0;
  text-transform:uppercase;
  height:35px;
  width:85px;
  border: 1px solid #5E5E5E;
  border-radius:5px;

 }

input.quizSubmit[type="submit"]:hover {
  color: #ffffff;
  background: #680f11;
  text-decoration: none;
}

table {
  background-color: #F2F2F2;
         border:1px solid #BDBDBD;
  border-radius:5px;
  padding:10px;
  padding-left:25px;
```

```
  box-shadow: rgba(0, 0, 0, 0.498039) 0px 0px 1px 0px;
}

th {

}

tr {

}

td {

}

.submitter {
         width:85px;
}

.hide {
         display:none;
}


/*SFS light red = #c30b0a;
SFS dark red = #9f2026; */
```

Quiz.js

```
// scripts here:

       function submitQuiz() {
              console.log('submitted');

       // get each answer score
              function answerScore (qName) {
                     var radiosNo = document.getElementsByName(qName);

                     for (var i = 0, length = radiosNo.length; i < length; i++) {
                            if (radiosNo[i].checked) {
                     // do something with radiosNo
                                   var answerValue = Number(radiosNo[i].value);
                            }
                     }
                     // change NaNs to zero
                     if (isNaN(answerValue)) {
                            answerValue = 0;
                     }
                     return answerValue;
              }

       // calc score with answerScore function
              var calcScore = (answerScore('q1') + answerScore('q2') + answerScore('q3') +
answerScore('q4')+answerScore('q5')+answerScore('q6')+answerScore('q7')+answerScore('q8')+answerS
core('q9')+answerScore('q10')+answerScore('q11') + answerScore('q12') + answerScore('q13') +
answerScore('q14')+answerScore('q15')+answerScore('q16')+answerScore('q17')+answerScore('q18')+an
swerScore('q19')+answerScore('q20'));
              console.log("CalcScore: " + calcScore); // it works!

       // function to return correct answer string
              function correctAnswer (correctStringNo, qNumber) {
                     console.log("qNumber: " + qNumber);  // logs 1,2,3,4 after called below
                     return ("The correct answer for question #" + qNumber + ":  <strong>" +
                            (document.getElementById(correctStringNo).innerHTML) + "</strong>");
                     }

       // print correct answers only if wrong (calls correctAnswer function)
              if (answerScore('q1') === 0) {
                     document.getElementById('correctAnswer1').innerHTML                    =
```

```
correctAnswer('correctString1', 1);
            }
            if (answerScore('q2') === 0) {
                  document.getElementById('correctAnswer2').innerHTML =
correctAnswer('correctString2', 2);
            }
            if (answerScore('q3') === 0) {
                  document.getElementById('correctAnswer3').innerHTML =
correctAnswer('correctString3', 3);
            }
            if (answerScore('q4') === 0) {
                  document.getElementById('correctAnswer4').innerHTML =
correctAnswer('correctString4', 4);
            }


            if (answerScore('q5') === 0) {
                  document.getElementById('correctAnswer5').innerHTML =
correctAnswer('correctString5', 5);
            }
            if (answerScore('q6') === 0) {
                  document.getElementById('correctAnswer6').innerHTML =
correctAnswer('correctString6', 6);
            }
            if (answerScore('q7') === 0) {
                  document.getElementById('correctAnswer7').innerHTML =
correctAnswer('correctString7', 7);
            }
            if (answerScore('q8') === 0) {
                  document.getElementById('correctAnswer8').innerHTML =
correctAnswer('correctString8', 8);
            }



              if (answerScore('q9') === 0) {
                  document.getElementById('correctAnswer9').innerHTML =
correctAnswer('correctString9', 9);
            }
            if (answerScore('q10') === 0) {
                  document.getElementById('correctAnswer10').innerHTML =
correctAnswer('correctString10', 10);
            }
            if (answerScore('q11') === 0) {
                  document.getElementById('correctAnswer11').innerHTML =
correctAnswer('correctString11', 11);
            }
            if (answerScore('q12') === 0) {
                  document.getElementById('correctAnswer12').innerHTML =
correctAnswer('correctString12', 12);
            }






              if (answerScore('q13') === 0) {
                  document.getElementById('correctAnswer13').innerHTML =
correctAnswer('correctString13', 13);
            }
            if (answerScore('q14') === 0) {
                  document.getElementById('correctAnswer14').innerHTML =
correctAnswer('correctString14', 14);
            }
            if (answerScore('q15') === 0) {
                  document.getElementById('correctAnswer15').innerHTML =
correctAnswer('correctString15', 15);
            }
            if (answerScore('q16') === 0) {
```

```
                document.getElementById('correctAnswer16').innerHTML =
correctAnswer('correctString16', 16);
            }




             if (answerScore('q17') === 0) {
                document.getElementById('correctAnswer17').innerHTML =
correctAnswer('correctString17', 17);
            }

            if (answerScore('q18') === 0) {
                document.getElementById('correctAnswer18').innerHTML =
correctAnswer('correctString18', 18);
            }
            if (answerScore('q19') === 0) {
                document.getElementById('correctAnswer19').innerHTML =
correctAnswer('correctString19', 19);
            }
            if (answerScore('q20') === 0) {
                document.getElementById('correctAnswer20').innerHTML =
correctAnswer('correctString20', 20);
            }


      // calculate "possible score" integer
            var questionCountArray = document.getElementsByClassName('question');

            var questionCounter = 0;
            for (var i = 0, length = questionCountArray.length; i < length; i++) {
                questionCounter++;
            }

      // show score as "score/possible score"
            var showScore = "Your Score: " + calcScore +"/" + questionCounter;
      // if 20/20, "perfect score!"
            if (calcScore === questionCounter) {
                showScore = showScore + "  <strong>Perfect Score!</strong>"
            };
            document.getElementById('userScore').innerHTML = showScore;
      }

$(document).ready(function() {

      $('#submitButton').click(function() {
            $(this).addClass('hide');
      });

});
```

Results:

Take an SQL Quiz!

1. What does SQL stand for?

- (•) Structured Query Language
- ( ) Structured Question Language
- ( ) Strong Question Language
- ( ) Simple Question Language

2.Which of the following is not true about the COALESCE function?

- ( ) It takes multiple alternate values.
- (•) It returns the first value in the parameter list if it is null.
- ( ) It returns the first non-null expression in the parameter list.
- ( ) None of the above

3.Which of the following is not true about the ON clause?

- ( ) ON clause specifies conditions or specify columns to join.
- (•) ON clause does not allow three way joins.
- ( ) ON clause makes the query easy to understand.
- ( ) None of the above.

4. Which of the following is not true about multiple-row subqueries?

- ( ) Multiple row subqueries return multiple rows from the outer SELECT statement.
- (•) Multiple row subqueries return multiple rows from the inner SELECT statement.
- ( ) Multiple row subqueries use multiple-row comparison operators.
- ( ) All of the above.

5.Which SQL statement is used to extract data from a database?

- (•) SELECT
- ( ) EXTRACT
- ( ) OPEN
- ( ) GET

6.Which of the following is not true about use of a database view?

- ( ) It provides data independence.
- (•) It prevents different views of same data.
- ( ) It makes queries easy.
- ( ) It restricts data access.

7.Which SQL statement is used to update data in a database?

- ( ) SAVE
- (•) UPDATE
- ( ) MODIFY
- ( ) SAVE AS

8. Which of the following code will delete a sequence named loc_seq?

- ( ) delete sequence loc-seq;
- (•) drop sequence loc_seq;
- ( ) delete primary key loc_sec;
- ( ) drop primary key loc_sec;

9.Which of the following code would create a role named student_admin?

- (•) CREATE ROLE student_admin;
- ( ) GRANT student_admin;
- ( ) CREATE student_admin;
- ( ) DELETE student_admin;

10.Which SQL statement is used to return only different values?

- ( ) SELECT DIFFERENT
- (•) SELECT DISTINCT
- ( ) SELECT UNIQUE
- ( ) None of the above

11. Choose the incorrect option about the sql server index

- ( ) Clustered indexes and non-clustered indexes
- (•) More than one clustered index on a table
- ( ) Both types use B-TREE for searching data
- ( ) Only one clustered index on a table

12.Which of the following DBCC command is used to see when was the last time the index rebuild?

- ( ) DBCC DBREINDEX
- (•) DBCC SHOW_STATISTICS
- ( ) DBCC SHOWCONFIG
- ( ) None of the above

13.With SQL, how can you insert a new record into the "Persons" table?

- (•) INSERT INTO Persons VALUES ('Jimmy', 'Jackson')
- ( ) INSERT INTO Persons(Name) VALUES ('Jimmy', 'Jackson')
- ( ) INSERT VALUES ('Jimmy', 'Jackson') INTO Persons
- ( ) INSERT ('Jimmy', 'Jackson') INTO Persons

14.Which type of integrity preserves the defined relationship between tables when records are entered or deleted?

- ( ) Entity integrity
- (•) Referential integrity
- ( ) User-defined integrity
- ( ) Domain integrity

15.Which SQL statement is used to delete data from a database?

- ( ) REMOVE
- (•) DELETE
- ( ) COLLAPSE
- ( ) REMOVE AS

16. How many Primary key constraints can be included in a table definition?

- ( ) Two
- (•) One
- ( ) Three
- ( ) Many

17.Which SQL statement is used to insert new data in a database?

- (•) INSERT INTO
- ( ) ADD NEW
- ( ) ADD RECORD
- ( ) INSERT NEW

Which statement is used to delete all rows in a table without having the action logged?

- ( ) Delete table statement
- (•) Truncate table statement
- ( ) Drop table statement
- ( ) None of the above

19.Tools for importing and exporting data in sql server

- ( ) bcp command utility
- ( ) DTS
- ( ) Bulk inserts
- (•) ALL of the above

20. Which SQL keyword is used to sort the result-set?

- ( ) Group by
- (•) Order by
- ( ) Sort
- ( ) Sort by

SUBMIT

Your Score: 20/20 Perfect Score!

[{"question ":"1. What does SQL stand for?","answer":"Structured Query Language"},{"question ":"2.Which of the following is not true about the COALESCE function?","answer":"It returns the first value in the parameter list if it is null."},{"question ":"3.Which of the following is not true about the ON clause?","answer":" ON clause does not allow three way joins."},{"question ":"4. Which of the following is not true about multiple-row subqueries?","answer":"Multiple row subqueries return multiple rows from the inner SELECT statement."},{"question ":"5.Which SQL statement is used to extract data from a database?","answer":"SELECT"},{"question ":"6.Which of the following is not true about use of a database view?","answer":"It prevents different views of same data."},{"question ":"7.Which SQL statement is used to update data in a database?","answer":"UPDATE"},{"question ":"8. Which of the following code will delete a sequence named loc_seq?","answer":" drop sequence loc_seq;"},{"question ":"9.Which of the following code would create a role named student_admin?","answer":"CREATE ROLE student_admin;"},{"question ":"10.Which SQL statement is used to return only different values?","answer":" SELECT DISTINCT"},{"question ":"11. Choose the incorrect option about the sql server index","answer":"More than one clustered index on a table"},{"question ":"12.Which of the following DBCC command is used to see when was the last time the index rebuild?","answer":"DBCC SHOW_STATISTICS"},{"question ":"13.With SQL, how can you insert a new record into the \"Persons\" table?","answer":" INSERT INTO Persons VALUES ('Jimmy', 'Jackson')"},{"question ":"14.Which type of integrity preserves the defined relationship between tables when records are entered or deleted?","answer":"Referential integrity"},{"question ":"15.Which SQL statement is used to delete data from a database?","answer":"DELETE"},{"question ":"16. How many Primary key constraints can be included in a table definition?","answer":"One"},{"question ":"17.Which SQL statement is used to insert new data in a database?","answer":"INSERT INTO"},{"question ":"Which statement is used to delete all rows in a table without having the action logged?","answer":"Truncate table statement"},{"question ":"19.Tools for importing and exporting data in sql server","answer":"ALL of the above"},{"question ":"20. Which SQL keyword is used to sort the result-set?","answer":"Order by"}]

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Fig. 1-5 Quiz results

Conclusion:

In this laboratory work I understood how to develop a simple quiz in JS (how to write functions conditional statements and for loops how to integrate a simple JQuery statement in JS code, how to log data as JSON file using JS and brawser console).