

Lab 3:

Problem 1: (demographics)

SQL query: select * from population_statistics LIMIT 0, 30 ;
Rows: 10

country_name	population	language
Belgium	10404000	Dutch
Netherlands	16645000	Dutch
England	60944000	English
France	62100000	French
Austria	8206000	German
Germany	82370000	German
Liechtenstein	34500	German
Italy	58145000	Italian
Portugal	10677000	Portuguese
Spain	40491000	Spanish

a. A list of all records sorted by country name

SQL query: SELECT * FROM 'population_statistics' ORDER BY 'country_name' LIMIT 0, 30 ;
Rows: 10

country_name	population	language
Austria	8206000	German
Belgium	10404000	Dutch
England	60944000	English
France	62100000	French
Germany	82370000	German
Italy	58145000	Italian
Liechtenstein	34500	German
Netherlands	16645000	Dutch
Portugal	10677000	Portuguese
Spain	40491000	Spanish

b. The country with the highest population

SQL query: select * from population_statistics Order by Population LIMIT 9, 1 ;
Rows: 1

country_name	population	language
Germany	82370000	German

c. The country with the lowest population

SQL query: select * from population_statistics Order by Population LIMIT 0, 1 ;
Rows: 1

country_name	population	language
Liechtenstein	34500	German

d. Countries that share a common language, such as French

SQL query: `SELECT * FROM `population_statistics` order by `language` LIMIT 0, 30 ;`
Rows: 10

country_name	population	language
Belgium	10404000	Dutch
Netherlands	16645000	Dutch
England	60944000	English
France	62100000	French
Austria	8206000	German
Germany	82370000	German
Liechtenstein	34500	German
Italy	58145000	Italian
Portugal	10677000	Portuguese
Spain	40491000	Spanish

Problem 2: autos

a. All records

SQL query: `SELECT * FROM `inventory` LIMIT 0, 30 ;`
Rows: 10

ID	Make	Model	Price	MPG-high	MPG-low	Year
1	Ford	Excursion	31999	14	10	2004
2	Volvo	S40 T5	18995	32	22	2006
3	Volvo	C70	28995	23	16	2006
4	Ford	Mustang	44470	26	17	2006
5	Smart	Fortwo Pas	15491	41	33	2008
6	Smart	Fortwo Pure	12388	41	33	2008
7	Chevrolet	Corvette	52999	26	16	2008
8	Chevrolet	Suburban	36999	19	14	2007
9	Mitsubishi	Eclipse GS	7998	26	17	2006
10	Mitsubishi	Outlander	5998	23	18	2003

b. Make, model, and price, sorted by make and model (results, sql code, PHP code)

```
SELECT `inventory`.`Make` , `inventory`.`Model` , `inventory`.`Price`
FROM `inventory`
ORDER BY `inventory`.`Make` , `inventory`.`Model`
LIMIT 0 , 30
```

```
$sql = "SELECT `inventory`.`Make`, `inventory`.`Model`, `inventory`.`Price`\n"
      . "FROM `inventory`\n"
      . "ORDER BY `inventory`.`Make`, `inventory`.`Model` LIMIT 0, 30 ";
```

SQL query: `SELECT * FROM 'inventory' LIMIT 0, 30 ;`
 Rows: 10

ID	Make	Model	Price	MPG-high	MPG-low	Year
1	Ford	Excursion	31999	14	10	2004
2	Volvo	S40 T5	18995	32	22	2006
3	Volvo	C70	28995	23	16	2006
4	Ford	Mustang	44470	26	17	2006
5	Smart	Fortwo Pas	15491	41	33	2008
6	Smart	Fortwo Pure	12388	41	33	2008
7	Chevrolet	Corvette	52999	26	16	2008
8	Chevrolet	Suburban	36999	19	14	2007
9	Mitsubishi	Eclipse GS	7998	26	17	2006
10	Mitsubishi	Outlander	5998	23	18	2003

c. The make and model of the car that gets the best miles per gallon

Showing rows 0 - 0 (10 total, Query took 0.0004 sec) [MPG-high: 41 - 41]

```
SELECT 'inventory'. 'Make' , 'inventory'. 'Model' , 'inventory'. 'MPG-high'
FROM 'inventory'
ORDER BY 'inventory'. 'MPG-high' DESC
LIMIT 0 , 1
```

Show: 1 row(s) starting from record # 1

in horizontal mode and repeat headers after 100 cells

Sort by key: None

+ Options

	Make	Model	MPG-high
☐	Smart	Fortwo Pas	41

Check All / Uncheck All With selected:

d. The make and model of the car that gets the worst miles per gallon.

Showing rows 0 - 0 (10 total, Query took 0.0003 sec) [MPG-low: 10 - 10]

```
SELECT 'inventory'. 'Make' , 'inventory'. 'Model' , 'inventory'. 'MPG-low'
FROM 'inventory'
ORDER BY 'inventory'. 'MPG-low' ASC
LIMIT 0 , 1
```

Profiling [Edit] []

Show: 1 row(s) starting from record # 1

in horizontal mode and repeat headers after 100 cells

Sort by key: None

+ Options

	Make	Model	MPG-low
☐	Ford	Excursion	10

Check All / Uncheck All With selected:

e. The make and model of the highest and lowest priced cars

```
mysql> select make, model, price from inventory
-> order by price DESC
-> limit 1;
+-----+-----+-----+
| make | model | price |
+-----+-----+-----+
| Chevrolet | Corvette | 52999 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select make, model, price from inventory
-> order by price
-> limit 1;
+-----+-----+-----+
| make | model | price |
+-----+-----+-----+
| Mitsubishi | Outlander | 5998 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

Problem 3:

```
<h2>Welcome to Friendly Software Support's BUG REPORT </h2>

<div style="text-align: center; border: ridge red thin; width: 600px;">

<?php
include ("connections/cis52lab3ex3.php");
if (!isset($_POST['submit'])) {
?>

<p>Please fill out the following bug report to notify us of any problems you have found in our software. Be
sure to answer all questions.</p>

<hr />

<form id="bugReport" name="bugReport" method="post" action="<?php $_SERVER['PHP_SELF'] ?>" >

<p>

<select name="product_name" id="product_name">

<option value="PNundefined" selected="selected">Product Name</option>

<option value="name1">abc</option>

<option value="name2">xyz</option>

<option value="name3">lmnop</option>

</select>

</p>

<p>

<select name="product_version" id="product_version">

<option value="PVundefined" selected="selected">Product Version</option>

<option value="f1">1</option>

<option value="f2">2</option>

<option value="f3">3</option>

</select>

</p>

<p>

<select name="hardware_type" id="hardware_type">

<option value="HTundefined" selected="selected">Hardware Type</option>
```

```
<option value="ht1">Big</option>
<option value="ht2">Little</option>
<option value="ht3">Medium</option>
</select>
</p>
<p>
<select name="operating_system" id="operating_system">
  <option value="UnknownOS" selected="selected">Operating System</option>
  <option value="linux">Linux</option>
  <option value="mac">Mac</option>
  <option value="pc">PC</option>
  <option value="unix">UNIX</option>
</select>
</p>
<p>
<label for="frequency">Frequency of problem</label>
<select name="frequency" id="frequency">
  <option value="n1">1</option>
  <option value="n2">2</option>
  <option value="n3">3</option>
  <option value="n4">4</option>
  <option value="n5">5</option>
</select>
(times per week)</p>
<p>
<label for="solution">Suggested Solution:</label><br />
<textarea name="solution" id="solution" cols="45" rows="5"></textarea>
</p>
<p>
<input type="submit" name="submit" id="submit" value="Submit Report" />
```

```

        <input name="bug_id" type="hidden" value="bug_id" />
    </p>
</form>

<?php
} else {
// declare form variables
$bug_id = $_POST['bug_id'];
$product_name = $_POST['product_name'];
$product_version = $_POST['product_version'];
$hardware_type = $_POST['hardware_type'];
$operating_system = $_POST['operating_system'];
$frequency = $_POST['frequency'];
$solution = $_POST['solution'];

// Connect to mysql
$cnx = mysql_connect($host, $user, $password) or trigger_error(mysql_error(),E_USER_ERROR);
if (!$cnx) {
    die('Could not connect: ' . mysql_error() );
}

echo "Connection worked.";

// Select database
// $res = mysql_query("USE cis52lab3", $cnx);
$result = mysql_select_db($db, $cnx);
if (!$result) {
    echo "Sorry, not connected to the database!";
}

$result = mysql_query("SELECT * from bugsreport");
if (!$result) {
    echo "Sorry, can't select table 'bugsreport'";
}

```

```
// $result = mysql_query($sql, $cnx); THIS WAS A PROBLEM!!!!!!!!!!!!!!!!!!!!!!<br />
```

```
if (!$sql) {
```

```
echo "Sorry, NO RECORDS WERE CHANGED!";
```

```
} else {
```

```
// clean up the $result - check for magic_quotes and strip slashes
```

```
echo "Thank you for assisting us in tracking down the bugs!<br />"
```

```
echo "A new record was added to the survey database.<br />"
```

```
echo "Click on 'View All Reports' to view your addition to the database.";
```

}

}

?>

<p>Create New
Report <a href="lab03-03a-Update.php"
onclick="alert('Sorry, not functional!')">Update Existing
Report <a href="lab03-03b-List.php"
onclick="alert('Sorry, not functional!')">View All Reports</p></div>

Welcome to Friendly Software Support's BUG REPORT

Please fill out the following bug report to notify us of any problems you have found in our software.
Be sure to answer all questions.

Product Name

Product Version

Hardware Type

Operating System

Frequency of problem (times per week)

Suggested Solution:

[Create New Report](#) [Update Existing Report](#) [View All Reports](#)

Welcome to Friendly Software Support's BUG REPORT

Connection worked.Thank you for assisting us in tracking down the bugs!
A new record was added to the survey database.
Click on 'View All Reports' to view your addition to the database.

[Create New Report](#) [Update Existing Report](#) [View All Reports](#)

bug_id	product_name	product_version	hardware_type	operating_system	frequency	solution
0	\$product_name	0	\$hardware_type	\$operating_system	0	\$solution
1	product_name	0	hardware_type	operating_system	0	solution
2	abc	8	what's it	PC	2	fix it
3	abc	3	Little	Linux	4	help!

Problem 4:

SQL CODE:

```
<?php
if (!isset($_POST['submitted'])) {
    include("lab03-04_form.php");

} else {
// declare variables
// Sample cleansing of data

if (isset ($_POST['survey_id']))
$survey_id = stripslashes($_POST['survey_id']);
else die("survey_id not passed in POST");

// FUTURE - clean up the variables; check for magic_quotes and strip slashes
$flight = $_POST['flight'];
$flightTime = $_POST['flightTime'];
$monthDay = $_POST['monthDay'];
$month = $_POST['month'];
```

```

$staff = $_POST['staff'];
$storage = $_POST['storage'];
$seating = $_POST['seating'];
$clean = $_POST['clean'];
$noise = $_POST['noise'];

//connect to mysql
include("connections/cis52lab3ex4.php");
$cnx = mysql_connect($host, $user, $password) or trigger_error(mysql_error(), E_USER_ERROR);
if (!$cnx) {
    die('Could not connect: ' . mysql_error());
} else {
    echo "<br />Connection worked";
}

// select database
$result = mysql_select_db($db, $cnx);
$result = mysql_query("SELECT * from surveyresults");
if (!$result) {
    echo "<br />Sorry, cant' select table 'surveyresults'. Try again later.";
}

// insert new survey result into table
$sql = "INSERT INTO cis52lab3.surveyresults
VALUES ('$survey_id', '$flight', '$flightTime', '$monthDay', '$month', '$staff', '$storage',
'$seating', '$clean', '$noise')";

/* This is how phpMyAdmin coded inputs:
$sql = "INSERT INTO `cis52lab3`.`surveyresults` (`survey_id`, `flight`, `flightTime`, `monthDay`, `month`,
`staff`, `storage`, `seating`, `clean`, `noise`) VALUES ('4', '257', '5am', '8', 'May', 'staff_3',
'storage_2', 'seating_3', 'clean_5', 'noise_4');"; */

if (!$sql) {
    echo "<p>Sorry, nothing new was added! Would you like to fill out a <a href='lab03-04.php'>bug
report</a>?</p>";
}

```

```

    } else {
        echo "<p>Thank you for submitting your Airline survey.</p>";
        echo "<p>A new record has been added to our survey. ";
        echo "If you wish to see past results of the survey, <br /><br />
                                please click here: <a href='lab03-04_results.php'>Survey
Results</a></p>";
    }
}
?>

```

HTML CODE

```

<form action="" method="post" name="surveyForm"> <h3 style="text-align:center; color: red; font-weight: bold; text-
transform: uppercase;"> Airline  "Survey of Satisfaction" Questionnaire</h3>

```

```

    <table width="650" border="0" cellpadding="4">

    <tr><td colspan="5">FLIGHT INFORMATION</td></tr>

    <tr>

    <td>

        <label for="flight">Flight #</label>

        <input name="survey_id" type="hidden" value="" />

        <input name="flight" type="text" id="flight" size="5" maxlength="10" /></td>

    <td colspan="2">

        <label for="flightTime">Time of Flight</label>

        <select name="flightTime" id="flightTime">

            <option value="1">1 AM</option>

            <option value="2">2 AM</option>

            <option value="3">3 AM</option>

            <option value="4">4 AM</option>

            <option value="5">5 AM</option>

            <option value="6">6 AM</option>

            <option value="7">7 AM</option>

```

```
<option value="8">8 AM</option>
<option value="9">9 AM</option>
<option value="10">10 AM</option>
<option value="11">11 AM</option>
<option value="12">12 PM</option>
<option value="13">1 PM</option>
<option value="14">2 PM</option>
<option value="15">3 PM</option>
<option value="16">4 PM</option>
<option value="17">5 PM</option>
<option value="18">6 PM</option>
<option value="19">7 PM</option>
<option value="20">8 PM </option>
<option value="21">9 PM</option>
<option value="22">10 PM</option>
<option value="23">11 PM</option>
<option value="24">12 AM</option>
</select></td>
```

```
<td><select name="monthDay">
  <option value="day0" selected="selected">Day of Month</option>
  <option value="1">1</option>
  <option value="2">2</option>
  <option value="3">3</option>
  <option value="4">4</option>
  <option value="5">5</option>
  <option value="6">6</option>
  <option value="7">7</option>
  <option value="8">8</option>
  <option value="9">9</option>
  <option value="10">10</option>
  <option value="11">11</option>
```

```
<option value="12">12</option>
<option value="13">13</option>
<option value="14">14</option>
<option value="15">15</option>
<option value="16">16</option>
<option value="17">17</option>
<option value="18">18</option>
<option value="19">19</option>
<option value="20">20</option>
<option value="21">21</option>
<option value="22">22</option>
<option value="23">23</option>
<option value="24">24</option>
<option value="25">25</option>
<option value="26">26</option>
<option value="27">27</option>
<option value="28">28</option>
<option value="29">29</option>
<option value="30">30</option>
<option value="31">31</option>
</select></td>
<td><select name="month">
  <option value="month" selected="selected">Month</option>
  <option value="m1">January</option>
  <option value="m2">February</option>
  <option value="m3">March</option>
  <option value="m4">April</option>
  <option value="m5">May</option>
  <option value="m6">June</option>
  <option value="m7">July</option>
  <option value="m8">August</option>
  <option value="m9">September</option>
```

```

<option value="m10">October</option>
<option value="m11">November</option>
<option value="m13">December</option>
</select></td></tr>

<tr><td colspan="5">SURVEY QUESTIONNAIRE</td></tr>

<tr>
  <th scope="col">Friendliness of Staff</th>
  <th scope="col">Sufficient Space for Luggage</th>
  <th scope="col">Comfort of Seating</th>
  <th scope="col">Cleanliness of Aircraft</th>
  <th scope="col">Noise Level of Aircraft</th>
</tr>

<tr>
  <td>
    <label>
      <input type="radio" name="staff" value="radio" id="staff_1" />
      No opinion</label>
    <br />
    <label>
      <input type="radio" name="staff" value="radio" id="staff_2" />
      Poor</label>
    <br />
    <label>
      <input type="radio" name="staff" value="radio" id="staff_3" />
      Fair</label>
    <br />
    <label>
      <input type="radio" name="staff" value="radio" id="staff_4" />
      Good</label>
    <br />
    <label>
      <input type="radio" name="staff" value="radio" id="staff_5" />

```

Excellent</label>

</td>

<td>

<label>

<input type="radio" name="storage" value="radio" id="storage_1" />

No opinion</label>

<label>

<input type="radio" name="storage" value="radio" id="storage_2" />

Poor</label>

<label>

<input type="radio" name="storage" value="radio" id="storage_3" />

Fair</label>

<label>

<input type="radio" name="storage" value="radio" id="storage_4" />

Good</label>

<label>

<input type="radio" name="storage" value="radio" id="storage_5" />

Excellent</label>

</td>

<td>

<label>

<input type="radio" name="seating" value="radio" id="seating_1" />

No opinion</label>

<label>

<input type="radio" name="seating" value="radio" id="seating_2" />

Poor</label>

```
<br />
<label>
  <input type="radio" name="seating" value="radio" id="seating_3" />
  Fair</label>
<br />
<label>
  <input type="radio" name="seating" value="radio" id="seating_4" />
  Good</label>
<br />
<label>
  <input type="radio" name="seating" value="radio" id="seating_5" />
  Excellent</label>
</td>
  <td>
    <label>
      <input type="radio" name="clean" value="radio" id="clean_1" />
      No opinion</label>
    <br />
    <label>
      <input type="radio" name="clean" value="radio" id="clean_2" />
      Poor</label>
    <br />
    <label>
      <input type="radio" name="clean" value="radio" id="clean_3" />
      Fair</label>
    <br />
    <label>
      <input type="radio" name="clean" value="radio" id="clean_4" />
      Good</label>
    <br />
    <label>
      <input type="radio" name="clean" value="radio" id="clean_5" />
```

```

        Excellent</label>
    </td>

    <td>

        <label>

            <input type="radio" name="noise" value="radio" id="noise_1" />

            No opinion</label>

        <br />

        <label>

            <input type="radio" name="noise" value="radio" id="noise_2" />

            Poor</label>

        <br />

        <label>

            <input type="radio" name="noise" value="radio" id="noise_3" />

            Fair</label>

        <br />

        <label>

            <input type="radio" name="noise" value="radio" id="noise_4" />

            Good</label>

        <br />

        <label>

            <input type="radio" name="noise" value="radio" id="noise_5" />

            Excellent</label>
    </td>
</tr>

<tr>

    <td colspan="5"><input type="submit" name="submitted" id="submitted" value="Submit Survey" />
</td>

</tr>

<tr> <!-- viewResults -->

    <td colspan="5"><input type="submit" name="<?php // include("lab03-04_results.php") ?>" id="viewResults"
value="View Past Survey Results" />    </td>

</tr>

</table>

```

</form>

AIRLINE "SURVEY OF SATISFACTION" QUESTIONNAIRE

FLIGHT INFORMATION

Flight #

Time of Flight

SURVEY QUESTIONNAIRE

Friendliness of Staff

- ☒ No opinion
☐ Poor
☐ Fair
☐ Good
☐ Excellent

Sufficient Space for Luggage

- ☐ No opinion
☒ Poor
☐ Fair
☐ Good
☐ Excellent

Comfort of Seating

- ☐ No opinion
☐ Poor
☒ Fair
☐ Good
☐ Excellent

Cleanliness of Aircraft

- ☐ No opinion
☐ Poor
☐ Fair
☒ Good
☐ Excellent

Noise Level of Aircraft

- ☐ No opinion
☐ Poor
☐ Fair
☒ Good
☐ Excellent

Connection worked

Thank you for submitting your Airline survey.

A new record has been added to our survey. If you wish to see past results of the survey,

please click here: [Survey Results](#)

survey_id	flight	flightTime	monthDay	month	staff	storage	seating	clean	noise
0	0		0		5	4	3	2	1
1	0		0		1	2	3	4	5
2	0	\$flig	0	\$month	\$staff	\$storage	\$seating	\$clean	\$noise
3	254	3am	5	May	staff_1	storage_2	seating_3	clean_5	noise_4
