Assignment #2: SQL (20 points)

Use the Access database “SQLAssignment.accdb” to complete the following exercises using SQL (this file is linked to the Blackboard assignment). You are required to submit the SQL you used in solving each of the exercises. To submit your SQL cut and paste the SQL from Access into a word processor (WordPad will work fine here) and submit to Blackboard.

1. Create a table (Passenger) based on the specifications below:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type/Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PassID</td>
<td>text 5 fixed (Primary Key)</td>
</tr>
<tr>
<td>PassLName</td>
<td>text 25 variable</td>
</tr>
<tr>
<td>PassFName</td>
<td>text 20 variable</td>
</tr>
<tr>
<td>PassAge</td>
<td>numeric</td>
</tr>
<tr>
<td>Maint_DT</td>
<td>date</td>
</tr>
</tbody>
</table>

2. Add the 5 records below using the INSERT command. For the Maint_DT attribute use the following Access function “Date()”.

<table>
<thead>
<tr>
<th>PassID</th>
<th>PassLName</th>
<th>PassFName</th>
<th>PassAge</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001</td>
<td>Morris</td>
<td>Lucy</td>
<td>50</td>
</tr>
<tr>
<td>00002</td>
<td>Smith</td>
<td>Trudy</td>
<td>61</td>
</tr>
<tr>
<td>00003</td>
<td>Collins</td>
<td>Harry</td>
<td>32</td>
</tr>
<tr>
<td>00004</td>
<td>Dean</td>
<td>Mark</td>
<td>27</td>
</tr>
<tr>
<td>00005</td>
<td>Hunter</td>
<td>Alan</td>
<td>12</td>
</tr>
</tbody>
</table>

3. Select all passengers sorted from oldest to youngest.

4. Select PassID, PassLName, and Maint_DT for all records.
Complete numbers 5 – 9 using the Ticket table found in SQLAssignment.accdb.

5. Select all ticket records listing the ticket number, passenger ID, and price for all flights arriving in “PVD”.

6. Select all ticket records listing ticket number, passenger ID, and Departing Airport with a price of more than $250.00.

7. Select all ticket records listing ticket number, passenger ID, and Departing Airport with a price greater than $200.00 and an Arrival Airport of “ORD”.

8. Create a derived attribute to determine a 50% discount for all flights to “PVD” (the calculation for the discount is price * .50). List the ticket number, passenger ID, Departing Airport, Depart Date, and Discount Price.

9. Find the average price for all flights arriving in “LAX”.

10. Use a JOIN to list ticket number, passenger last name, Departing Airport, depart date, from the passenger and ticket tables with an Arriving Airport of “ORD” in descending order by price.