**Sample Test Cases for LAB 4 (different design, but same concepts as your Lab 4)**

Your assignment is to design test cases for testing data entries into the following table which a retail merchant is using to track all of their products that they carry in inventory.

*NOTE:* Access checks some fields when you tab to the next field and some fields are checked at the end of the record, so you might need to adjust your test cases as you begin testing.

**Product Table**

UPC Universal Product Code, twelve digits, no letters or special characters

Manufacturer Text field, will accept up to 25 characters, including blanks

Description Text field, will accept up to 25 characters, including blanks

Cost Price paid (decimal value with 3 decimal places)

Retail Price Retail Shelf Price (decimal value with 2 decimal places)

Quantity Quantity in stock (integer value) negative not allowed

**Access Test Cases**

**Test 1:** Attempt to enter a valid complete record into the database

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab Entry accepted
3. Continue to the Description Field
4. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
5. Continue to the Cost Field
6. Enter 0.175, press enter Entry accepted
7. Continue to the Retail Price field
8. Enter 0.39, press enter Entry accepted
9. Continue to the Quantity field
10. Enter 144, press enter Entry/Record accepted

**Test 2:** Attempt to enter invalid UPC codes into the database (both too short and too long)

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 11 digits

02400016286, then press tab Error - Invalid length

1. Return to the UPC Field, then enter the following 13 digits

0240001628659 Error – Entry not accepted

**Test 3:** Attempt to enter a blank manufacturer name into the data base

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Press tab, leaving the Manufacturer Field blank Entry accepted
3. Continue to the Description Field
4. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
5. Continue to the Cost Field
6. Enter 0.175, press enter Entry accepted
7. Continue to the Retail Price field
8. Enter 0.39, press enter Entry accepted
9. Continue to the Quantity field
10. Enter 144, press enter Entry/Record accepted

**Test 4:** Attempt to enter a 25 character manufacturer name into the data base

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter into the manufacturer field the following 25 characters

abcdefghijklmnopqrstuvwxy Entry accepted

1. Continue to the Description Field
2. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
3. Continue to the Cost Field
4. Enter 0.175, press enter Entry accepted
5. Continue to the Retail Price field
6. Enter 0.39, press enter Entry accepted
7. Continue to the Quantity field
8. Enter 144, press enter Entry/Record accepted

**Test 5:** Attempt to enter a 26 character manufacturer name into the data base

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter into the manufacturer field the following 26 characters

abcdefghijklmnopqrstuvwxyz Should not accept the z

**Test 6:** Attempt to enter a 25 character product description name into the data base

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab to Continue to the Description Field
3. Enter into the product description field the following 25 characters

abcdefghijklmnopqrstuvwxy

1. Continue to the Cost Field
2. Enter 0.175, press enter Entry accepted
3. Continue to the Retail Price field
4. Enter 0.39, press enter Entry accepted
5. Continue to the Quantity field
6. Enter 144, press enter Entry/Record accepted

**Test 7:** Attempt to enter a 26 character description name into the data base

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab to Continue to the Description Field
3. Enter into the description field the following 26 characters

abcdefghijklmnopqrstuvwxyz Should not accept the z

**Test 8:** Attempt to enter a cost with 4 decimal places into the database

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab Entry accepted
3. Continue to the Description Field
4. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
5. Continue to the Cost Field
6. Enter 0.1234, press enter Should not accept the 4

**Test 9:** Attempt to enter a retail price with 3 decimal places into the database

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab Entry accepted
3. Continue to the Description Field
4. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
5. Continue to the Cost Field
6. Enter 0.175, press enter Entry accepted
7. Continue to the Retail Price field
8. Enter 0.123, press enter Should not accept the 3rd

**Test 10:** Attempt to enter a negative quantity into the database

Steps: Expected Results

1. Open the database, then open the Product Table
2. Click on the UPC Field, then enter the following 12 digits

024000162865, then press tab Entry accepted

1. Continue to the Manufacturer Field
2. Enter “Del Monte”, press tab Entry accepted
3. Continue to the Description Field
4. Enter “Blue Lake Cut Green Beans”, press tab Entry accepted
5. Continue to the Cost Field
6. Enter 0.175, press enter Entry accepted
7. Continue to the Retail Price field
8. Enter 0.39, press enter Entry accepted
9. Continue to the Quantity field
10. Enter -1, press enter Error Message