

CA141 - Homework #3

Objective: Practice creating a three table database, set field properties, create a lookup list, and import table data from an Excel file.

Scenario:

Big Bird has decided to open a pet store and wants you to create a database for him.

Create a database named ***PetStore_yourfirstname***

The database will need the following three tables to contain customers, pets, and sales.

Table #1 - Customers table: Big Bird will want to contact his customers after the sale to follow-up. Typical contact fields are first name, last name, street address, city, state, zip code, and phone number. He also requires the customer's social security number in this format xxx-xx-xxxx, which will be called CustomerID field.

Table #2 - Pets table. Big Bird will need the following fields; PetID, PetName, BirthDate, Gender, Breeder, DateArrived, AnimalType, and WholeSalePrice.

Table #3 - Sales table will contain two foreign keys both the customers' primary key and the pets' primary key. It will need to track the pet sold to the customer. The sales table must contain the following fields: InvoiceID number, CustomerID number, PetID number, the date of the sale, and the amount paid for the pet.

Create the three tables

1. Use the Leszynski Naming Convention (LNC) for all table and field names.
2. Please do not add additional fields to your tables.
3. Apply the best ***data type*** to each field, see Figure 2-4 page AC49.
4. Set only *one* primary key for each table.

A primary key field is a field where the data is always different for each record. In design view, a key icon will appear beside the field name set as the primary key. Please verify or select the primary key field. Set key by clicking on the key icon.

Set the following Field Properties:

Refer to Input Mask Characters in Figure 5-37, page AC237.

1. CustomerID number - set the ***input mask*** to a social security number with this format xxx-xx-xxxx, use wizard and any place holder.
2. PetID number - set the ***input mask*** to only accept the required three letters and two numbers and make sure the letters are displayed in uppercase, example CAT24.

3. InvoiceID number – Set the **input mask** to only accept required three letters and required four numbers. Make sure the letters are displayed in lowercase. The InvoiceID number will be three letter month abbreviation and four number time.
 - For example, if sale took place in January at 9:35 AM the InvoiceID data will be *jan0935*.
4. Add **captions** to at least 5 fields.
5. Adjust *each* applicable **field size** to reserve minimal amount of memory. (Example: reduce Phone number, zip code, CustomerID, and etc.)
6. State **field size** - set it to accept only 2 characters in size, displays in uppercase only, and defaults to *MD* for Maryland, since most customer are from this area.
7. Set both date fields **input mask** to a short date, example 06/11/2007
8. Set both date fields to display a medium date **format**, example 11-Jun-07
9. Sales Date field - create a **validation rule** for the sales date field so all dates entered are after 2/1/2008.
10. Sales Date field - create a **validation text message** for the so it will display an error message that the data is invalid and they should enter a date after 2/1/2008.
11. Phone number field - set the **input mask** so it includes a 10 digit number with the area code in parentheses, use wizard.
12. Zip code field - set **input mask** for only a 5 digit required number.
13. City field - add a **lookup list** of the four most common cities around the store: Rockville, Gaithersburg, Germantown, Bethesda

Enter records

1. Enter 5 records in the Customers table.
2. Import 5 records onto the Pets table from the Excel [Pets.xls](#) file. Download this file from the class web site schedule page. (<http://www.danamathews.com/Classes/index.html>)
3. Enter 3 records in the Sales table showing a customer purchasing one pet.
Hint: Use an existing CustomerID with an existing PetID number to show which customer purchased which pet. Note: Only one pet can be purchased, but one customer can purchase many pets.

Hand In

4. Print each table's records (datasheet view). Bring printouts to class and hand in.
5. Submit your homework file by uploading it via the class web site.
6. Due by next class by 6 pm.