New Perspectives on Microsoft Access 2016 Instructor's Manual

1 of 10

Microsoft Access 2016

Module 2: Building a Database and Defining Table Relationships

A Guide to this Instructor's Manual:

We have designed this Instructor's Manual to supplement and enhance your teaching experience through classroom activities and a cohesive module summary.

This document is organized chronologically, using the same headings in **blue** that you see in the textbook. Under each heading you will find (in order): Lecture Notes that summarize the section, Teacher Tips, Classroom Activities, and Lab Activities. Pay special attention to teaching tips and activities geared towards quizzing your students, enhancing their critical thinking skills, and encouraging experimentation within the software.

In addition to this Instructor's Manual, our Instructor's Resources also contains PowerPoint Presentations, Test Banks, and other supplements to aid in your teaching experience.

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Module Objectives

Students will have mastered the material in this module when they can:

Session 2.1

- Learn the guidelines for designing databases and setting field properties
- Create a table in Design view

- Define fields, set field properties, and specify a table's primary key
- Modify the structure of a table
- Change the order of fields in Design view
- Add new fields in Design view

- Change the Format property for a field in Datasheet view
- Modify field properties in Design view

Session 2.2

- Import data from an Excel worksheet
- Import an existing table structure
- Add fields to a table with the Data Type gallery

Guidelines for Designing Databases

LECTURE NOTES

• Discuss the guidelines for designing databases.

TEACHER TIP

Encourage students to spend adequate time designing their databases; it will save them valuable time later.

The first step in designing a database is to think of all the fields of data you might want to store. Explain to students that for a large database, this step is often done by a group who will "brainstorm" all the data items that will be needed in a database. The next step is to group the fields into tables. Each table will contain a group of related fields. A field will be selected in each table to become the primary key for that table.

The primary key is a field in the table that can uniquely identify a record in the table. When tables will be related to one another, you need to include a common field in the two tables that will be used to form the relationship. For each field, you will need to specify the properties for that field. Field properties include their data type, field sizes, and an optional description of the field.

CLASSROOM ACTIVITIES

1. Classroom Discussion:

What fields would you identify when creating a database of students who attend your school? (Answer: Identify all the fields needed to produce the required information. For example, information about age, majors, full time, part time, etc.)

2. Quick Quiz:

- The _____ uniquely identifies each record in a table. (Answer: D)
 - A. composite key
 - B. customer ID
 - C. first field
 - D. primary key
- When you store the same data in more than one place, ______ occurs. (Answer: data redundancy)

Guidelines for Setting Field Properties

LECTURE NOTES

• Discuss how to name fields and objects.

- Delete and rename fields
- Change the data type for a field in Design view
- Set the Default Value property for a field
- Import a text file
- Define a relationship between two tables

- Discuss the assignment of field data types.
- Discuss how to set field sizes.

TEACHER TIP

When selecting a field size, students should make sure the field is big enough to hold the largest piece of data to be stored there. However, the field should not be larger than necessary because this will result in wasted space.

Point out that database design is a very complicated and intricate process. It takes much practice and experience to become a good database designer. The concepts presented in the book are meant to get the student to start thinking about design issues. However, students should know that there is much more to learn about database design.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: The Field Size property defines a field value's maximum storage size for Text, Number, and AutoNumber fields only. (Answer: True)
- True or False: The primary key determines what field values you can enter for the field and what other properties the field will have. (Answer: False)
- When would you use the Text data type? (Answer: Use the Text data type for names, addresses, descriptions, and fields containing digits that are not used in calculations.)
- When would you use the Memo data type? (Answer: Use the Memo data type for long comments and explanations.)
- When would you use the Number data type? (Answer: Use the Number data type for fields that will be used in calculations, except those involving money; use the Currency data type for money.)
- 2. Group Activity:

Divide students into groups of five (larger groups allow for more brainstorming). Tell the students they need to set up a database for a softball league. Have students consider that they will need to maintain information about each player and also about each team. Allow students to brainstorm about what fields of information will be needed for each player and for each team. As they consider the required fields, have students also determine each field's properties. Finally, have students determine how these two tables will be related, what type of relationship (e.g., one-to-many) they will have, the common field(s) that form the relationship, and any other specifications that might be important. Have the groups draw out their design similar to Figure 2-2. When they are all finished, have the groups swap their design with another group. Now have each group critique the design that has been passed to them by another group.

Creating a Table in Design View

LECTURE NOTES

- Demonstrate how to create a table.
- Show how to define a field.
- Show how to specify the primary key.
- Demonstrate how to save the table structure.

TEACHER TIP

When students create a table, they will name the fields and define the properties for the fields. They will also specify the primary key for each table and save the table structure. The table structure is set up and modified in Design view. When all the fields have been defined, they will then specify which field(s) will be the primary key. When the table has been fully defined, they will save the table structure.

Use Figure 2-6 through 2-13 to discuss the elements in the Table window in Design view. Although it is not required to enter a description for the fields, it is advisable to do so. Students should always select a field(s) as the primary key. Although Access does not require that you do so, there are several advantages to selecting a primary key.

CLASSROOM ACTIVITIES

1. Class Discussion:

In general, what are the steps in creating a table? (Answer: When students create a table, they will name the fields and define the properties for the fields. They will also specify the primary key for each table and save the table structure. The table structure is set up and modified in Design view. When all the fields have been defined, they will then specify which field(s) will be the primary key. When the table has been fully defined, they will save the table structure.)

2. Quick Quiz:

- If you make a typing error, what should you do? (Answer: Click to position the insertion point where the error is located and use either the Backspace key or the Delete key.)
- What data type should you select if you want to display cents and dollar signs? (Answer: Currency)

LAB ACTIVITIES

Divide students into the groups that designed the database for a softball league. Have students create a table based on their group's design.

Modifying the Structure of an Access Table

LECTURE NOTES

- Demonstrate how to move a field.
- Show how to add a field.

TEACHER TIP

Whenever a database object, such as a table, is modified, Access will ask if you want to save the modification. It is only the structure of the table that must be saved. Records, on the other hand, are automatically stored as they are entered.

When viewing the Relationships window, if the student sees field lists for system tables (beginning with "MSys" in their names), then Access is set to display system tables. To change this setting, click the File tab, click Current Database, click the Navigation Options button, and then clear the "Show Hidden Objects" and "Show System Objects" check boxes. Click the OK button to close the dialog boxes, and then close and reopen the database. (This setting applies to each database and is not a global Access setting.)

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: An Access table cannot be modified once it is created. (Answer: False)
- Text fields have a default field size of _____. (Answer: 255)
- 2. Class Discussion:

What are the steps to add a field between two fields? (Answer: In the Table window in Design view, select the row for the field above where you want to add a new field. In the Tools group on the Table Tools Design tab, click the Insert Rows button. Define the new field by entering the field name, data type, optional description, and any property specifications.) Why might you want to add a field between two fields?

Modifying Field Properties

LECTURE NOTES

- Demonstrate how to change the Format Property in Datasheet View.
- Demonstrate changing Properties in Design View.

TEACHER TIP

You can make some changes to properties in Datasheet view; for others, you'll work in Design view.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: When formatting a field, you do not change the actual values stored in the table. (Answer: True)
- Property changes are more easily done in ______ view. (Answer: Design)

2. Class Discussion:

Why should you reduce the size of fields that are too large for the data they will hold?

Adding Records to a New Table

LECTURE NOTES

Show how to add a record to a table.

TEACHER TIP

When a table is created, the table structure is established. Once the table has been created, students will then need to add records to the table. As students enter records, they will be placed in the table in the order in which they were entered. However, when students close the table and open it again, the records will be ordered according to the primary key order.

CLASSROOM ACTIVITIES

1. Creative Thinking Activity:

Refer to Figure 2-21. Where would you most likely find the information contained in the table? (Many times when students are given the information, they can enter it into the table, but locating or researching the information can be difficult.)

2. Quick Quiz:

- Use the ______ to open a table in Datasheet view. (Answer: Navigation Pane)
- To insert a check mark in the Yes/No value, press the _____. (Answer: spacebar)

Importing Data from an Excel Worksheet

LECTURE NOTES

• Show how to import a worksheet into a table.

TEACHER TIP

Students often do not realize that information created in one type of software can be imported into another type of software. There are various ways to import this information.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: Importing data is a process that allows you to copy the data from a source without having to open the source file. (Answer: True)
- True or False: You cannot import a spreadsheet from Excel. (Answer: False)
- 2. Class Discussion:

What are the first three steps for importing a worksheet into a table? (Answer: 1. Click the Close button on the table window bar to close any open tables. 2. Save the table. 3. Click the External Data tab on the Ribbon.)

Creating a Table by Importing an Existing Table Structure

LECTURE NOTES

• Show how to create a table by importing the structure of another table.

TEACHER TIP

Explain that if another Access database contains a table—or even just the design, or structure, of a table—that you want to include in your database, you can easily import the table and any records it contains or import only the table structure into your database.

When copying records from one table to another, it is very important to first determine that the two tables have the exact same data structure. If the two data structures differ in any way, the copy will cause an error. However, when you import, you are importing an entire table including its data and its structure. This is a good way to include a table in your database that was previously designed in a different database.

CLASSROOM ACTIVITIES

1. Class Discussion:

Discuss that in a corporate setting, there may be several people working on a database at one time. The ability to copy records into a table or import an entire table allows for the transfer of data in a collaborative effort. Of course, someone within the corporation must maintain the integrity of the data.

2. Group Activity:

In groups of two or three, have students consider the following situation: An organization has several departments; up to this point, each department has been creating and maintaining its own database that pertains to its particular needs. However, the organization has decided that it could reduce redundancy and improve data integrity by pulling all the data into a single database. Have students discuss how this process might be done and what kinds of problems could arise. Ask students to consider that each department had maintained a customer database. Now that the data will be pulled

together, what will happen if the table structures don't match? How will they import all this data and end up with a single customer database?

Adding Fields to a Table Using the Data Type Gallery

LECTURE NOTES

• Demonstrate how to add fields using the Data Type gallery.

TEACHER TIP

Explain that this feature allows you to add a group of related fields to a table at the same time, rather than adding each field to the table individually, thus saving time.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- How do you make a field active? (Answer: by clicking in it)
- What section provides options that will add multiple, related fields to the table at one time? (Answer: the Quick Start)

2. Class Discussion:

Consider that a large organization has a very large database of information. What kinds of controls do you think will need to be in place for data entry? Do you think anyone in the corporation should be able to update data? Why or why not?

Modifying the Imported Table

- Show how to delete a field from a table structure and in Design view.
- Show how to rename a field in Design view.
- Show how to change the data type for a field in Design view.

TEACHER TIP

It is important to be able to modify an imported table. Remind students that although they can move fields in Datasheet view by dragging a field's column heading to a new location, doing so rearranges only the display of the table's fields; the table structure is not changed.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: You can delete fields from an imported table structure. (Answer: True)
- You can change a field's data type in ______view? (Answer: Design or Datasheet)

2. Class Discussion:

What is the difference between the Description and the Caption property values? Why do you need both?

Setting the Default Value Property for a Field

LECTURE NOTES

• Demonstrate how to set the Default Value property for a field.

TEACHER TIP

The Default Value property for a field specifies what value will appear, by default, for the field in each new record you add to a table. This makes it quicker and more accurate to enter fields that may repeat in most records such has the state code and area code.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: A text entry in the Default Value property must be enclosed within quotation marks. (Answer: True)
- True or False: Leaving the quotation marks off will result in an error. (Answer: False, they will be added automatically if left off)
- 2. Class Discussion:

Consider that a large organization has a very large database of information. What kinds of fields might be defined as having default values?

Adding Data to a Table by Importing a Text File

LECTURE NOTES

• Demonstrate how to import data contained in a text file.

TEACHER TIP

Spend some time discussing a delimited text file (one in which fields of data are separated by a character such as a comma or a tab). Refer to Figure 2-38.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: Click the Append button to copy the records of a text file. (Answer: True)
- True or False: A delimited text file is one in which fields of data are separated by a character such as a comma or a tab. (Answer: True)
- 2. Class Discussion:

Consider that a large organization has a very large database of information. What kinds of controls do you think will need to be in place for data entry? Do you think anyone in the corporation should be able to update data? Why or why not?

Defining Table Relationships

LECTURE NOTES

- Discuss one-to-many relationships.
- Discuss referential integrity.
- Discuss how to define a relationship between two tables.

TEACHER TIP

Discuss the terminology covered in this section (one-to-many relationships, primary table, related table, orphaned record, and referential integrity). This is a basis for understanding how to define a relationship between two tables.

CLASSROOM ACTIVITIES

1. Quick Quiz:

- True or False: Referential integrity is a set of rules that Access enforces to maintain consistency between related tables when you update data in a database. (Answer: True)
- The _____ connects the fields that are common to two tables. (Answer: join line)

2. Class Discussion:

What is the difference between a primary table and a related table? (Answer: The primary table is the "one" table in a one-to-many relationship; in Figure 2-40, the Animal table is the primary table because there is only one animal for each visit. The related table is the "many" table; in Figure 2-40, the Visit table is the related table because an animal can have zero, one, or many visits.)

LAB ACTIVITIES

Divide the class back into the softball database discussion groups. Have them consider the process of determining a primary key for a table. Have them look at their databases. Do any of these fields represent a unique value that could serve as the primary key? If not, what could they do to provide a field that has a unique value for each record? If they decide to create a field, how will it be done? What will be the data type of the primary key? Who will assign the value? How will you make sure that there are no duplicates in this field? Once they have answered these questions, have them go to their databases and modify and create/delete fields to insert a primary key.

TEACHER TIP

In this module, students learn how to add fields using the Data Type gallery. Students add the fields using a Quick Start Selection, which is a sort of template that inserts a group of related fields in a table. In Access, there is a certain degree of unpredictability when using any templates (database templates, table templates, Quick Start Selections, etc.). The end results are not always what you want or intend. For example, you might want to delete one or more of the fields inserted with the Quick Start Selection. When you delete the field in Datasheet view or Design view, the deletion might not be permanent or visible when you switch views, causing the deleted fields to reappear. If students encounter these types of problems, closing and reopening the table might help, but students might also need to close the database, reopen it, and compact and repair it before the deleted fields will remain deleted from the table.

End of Module Material

- **Review Assignments:** Review Assignments provide students with additional practice of the skills they learned in the module using the same module case, with which they are already familiar. These assignments are designed as straight practice and do not include anything of an exploratory nature.
- **Case Problems:** A typical NP module has four Case Problems following the Review Assignments. Short modules can have fewer Case Problems (or none at all); other modules may have five Case Problems. The Case Problems provide further hands-on assessment of the skills and topics presented in the module, but with new case scenarios. There are five types of Case Problems:
 - **Apply**. In this type of Case Problem, students apply the skills that they have learned in the module to solve a new problem.
 - **Create**. In a Create Case Problem, students are either shown the end result (such as a finished Word document) and asked to create the document based on the figure provided, or, students are asked to create something from scratch in a more free-form manner.

- **Challenge**. A Challenge Case Problem involves one or more Explore steps. These steps challenge students by having them go beyond what was covered in the module, either with guidance in the step or by using online Help as directed.
- **Research**. A Research Case Problem requires students to find information on the Internet to help solve a problem or to include in the file they are creating.
- **Troubleshoot**. In this type of Case Problem, certain steps of the exercise require students to identify and correct errors that are intentionally placed in the files. Completing these steps helps to promote problem solving and critical thinking.

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New Perspectives Access 2016 Module 2 Quick Check Answers

Session 2.1

- Identify all the fields needed to produce the required information, organize each piece of data into its smallest useful part, group related fields into tables, determine each table's primary key, include a common field in related tables, avoid data redundancy, and determine the properties of each field.
- 2. The Data Type property determines what field values you can enter into the field and what other properties the field will have.
- 3. Caption
- 4. Short Text, Number, and AutoNumber
- 5. 255
- 6. F6
- 7. A primary key uniquely identifies each record in the table; a primary key prevents duplicate values from being entered in the same field; Access forces you to enter a value for the primary key field in every record in the table; records will always be displayed in a meanginful order by primary key, regardless of the order in which you entered them; Access responds faster to requests for specific records based on the primary key.

Session 2.2

- 1. Ctrl + '
- 2. Importing
- 3. Data Type
- 4. The field and all its values are removed from the table.
- 5. delimited
- 6. primary table; related table
- 7. Referential integrity

Class: Professor: Notes: Solution Filename: Beauty.accdb

Description	Pts	Your
	4	Score
Beauty database, Option table	4	
a. OptionID: Description, "Primary key"; size "3"; caption, "Option ID"		
b. OptionDescription: Size "45"; caption, "Option Description"		
c. OptionCost: Format, "Standard"; "0" decimal places; caption,		
"Option Cost"		
d. FeeWaived: Caption "Fee Waived"		
Table created using design in Fig 2-48	3	
MemberID is the primary key, table saved as "Member"	2	
4 Fields added between LastName / Phone fields and one field	2	
between Phone and OptionEnd fields	2	
a. Address field: "Street", size "40", caption deleted	4	
b. City field: Size "25", caption deleted	-	
c. StateProvince field: "State", size "2", caption deleted, FL is		
default value		
d. ZIPPostal field: "Zip", size 10, caption deleted		
e. CountryRegion field deleted from Member table structure		
f. "OptionBegin" field added (data type: "Date/Time"; format:		
"Short Date"; Caption: "Option Begins") between Phone /		
OptionEnd fields		
Records in Fig 2-49 entered. 1 st / last names entered. Columns resized	2	
to their best fit		
Data imported from Customers text file; Source: Customer text file;	3	
append the data; Table: Member; import delimited data and use a		
comma delimiter; do not save the import steps		
One-to-many relationship between primary Plan / Member table. All	3	
field names visible. Referential integrity, cascade updates defined for		
the relationship		
Beauty database compacted / repaired	2	
TOTAL POSSIBLE POINTS:	25	0

YOUR SCORE: _____

Class: Professor: Notes: Solution Filename: Programming.accdb

Description	Pts	Your Score
Programming database, Tutor table, field properties set as in Fig 2-50	3	Beore
Field added as last field with name "Groups", "Yes/No" data type,	3	
caption "Groups Only"		
Specify which tutors conduct group tutoring sessions only: Carey	2	
Billings, Fredrik Karlsson, Ellen Desoto, Donald Gallager		
Structure of Student table in Client database imported into table	3	
named "Student" in Programming database		
New fields at end: "BirthDate" (Date/Time), "Gender" (Short Text)	2	
4 fields related to phone numbers added between Zip / BirthDate	3	
BusinessPhone / FaxNumber fields deleted	2	
Design from Fig 2-51, including revised field names / data types	2	
LastName field follows FirstName field	1	
Records in Fig 2-52 added	3	
Fields resized to their best fit	1	
Data imported from Students text file	2	
Columns resized to their best fit	1	
Table created using design in Figure 2-53	3	
ContractID is primary key, table saved as "Contract"	2	
Field added, between TutorID / SessionType fields: "ContractDate"	3	
name, "Date/Time" data type, "Date contract is signed" description,		
"Short Date" format, "Contract Date" caption		
Data imported from Agreements workbook	3	
Records in Fig 2-54 added	3	
Columns resized to their best fit	1	
One-to-many relationships between database tables: Between Primary	5	
Student table / related Contract table, primary Tutor table / related		
Contract table. All field names visible. Referential integrity, cascade		
updates defined for each relationship		
Programming database compacted / repaired	2	
TOTAL POSSIBLE POINTS:	50	0

YOUR SCORE: _____

Class: Professor: Notes: Solution Filename: Center.accdb

Description	Pts	Your Score
"Center" database, "Patron" table,	4	Beore
a. PatronID: Description "Primary key", field size 5, caption "Patron ID"		
b. Title: Field size 4		
c. FirstName: Field size "20", caption "First Name"		
d. LastName: Field size "25", caption "Last Name"		
e. Phone: Field size "14"		
f. Email: Field size "35"		
Table created with data imported from the Donations workbook	2	
Primary key DonationID, table named "Donation"	2	
Left-justify DonationDescription field	1	
Table matches design in Fig 2-55	3	
Columns resized to their best fit	1	
Donation Value: Made current field, 0 decimal places	2	
Table created using design in Fig 2-56	3	
Primary key AuctionID, table saved as "Auction"	2	
Data imported to Auction table from Auctions text file	2	
Columns resized to their best fit	1	
DonationID: made 2 nd field, description "Foreign key".	2	
Records added from Fig 2-57	2	
One-to-many relationships between tables: Primary Patron table /	5	
related Donation table, primary Donation table / related Auction table.		
All field names visible. Referential integrity, cascade updates defined		
for each relationship		
Center database compacted / repaired	2	
TOTAL POSSIBLE POINTS:		0

YOUR SCORE: _____

Class: Professor: Notes: Solution Filename: Appalachia.accdb

Description	Pts	Your Score
"Appalachia" database, "Hiker" table,	6	Score
a. HikerID: "Primary key" description, size "3", "Hiker ID" caption	Ū	
b. HikerFirst: Size "20", "Hiker First Name" caption		
c. HikerLast: Size "25", "Hiker Last Name" caption		
d. Address: Size "35"		
e. City: Size "25"		
f. State: Size "2"		
g. Zip: Size "10"		
h. Phone: Size "14"		
Hiker First Name / Hiker Last Name columns resized to their best fit	1	1
"Trip" table structure and data from "Travel" database imported into	3	
new table in "Appalachia" database		
Trip table renamed "Tour" giving the name to the new table in	1	
"Appalachia" database		
a. TourID: Description "Primary key", size "3", "Tour ID" caption	3	
b. TourName: "Tour Name" caption, size "35"		
c. PricePerPerson: "Price Per Person" caption		
Columns resized to their best fit	1	
Table created using design in Fig 2-58	3	
ReservationID primary key, table saved as "Reservation"	2	
TourDate field displays dates in format similar to 02/15/17	1	
Data in the Bookings text file imported into Reservation table	2	
Columns resized to their best fit, date values in TourDate field are	2	
displayed according to the custom format		
One-to-many relationships between tables: Primary Hiker table /	4	
related Reservation table, primary Tour table / related Reservation		
table. All field names visible. Referential integrity, cascade updates		
defined for each relationship		
Appalachia database compacted / repaired	1	
TOTAL POSSIBLE POINTS:	30	0

YOUR SCORE: _____

Grading Rubric – Access 2016 Module 2, Module Case

Class: Professor: Notes: Solution Filename: Riverview.accdb

Description	Pts	Your Score
"Riverview" database, table created using design in Fig 2-5, table	2	
saved as "Billing"		
InvoiceNum field (primary key, Size: "5", caption: "Invoice Num")	1	
VisitID field (Data type: "Short Text"; Description: "Foreign key";	4	
Size: "4"; Caption: "Visit ID").		
InvoiceAmt field (Data Type: "Currency"; Decimal Places: "2""		
Caption: "Invoice Amt").		
InvoiceDate field (Data type: "Date/Time"; Format: "mm/dd/yyy";		
Caption: "Invoice Date").		
InvoicePaid field (Data type: "yes/no"; Caption: "Invoice Paid").		
"InvoiceAmt" appears before the InvoicePaid field.	1	
InvoiceItem field: (Created before InvoicePaid field; Data Type:	1	
"Short Text"; Size: "40"; Caption: "Invoice Item"		
In Visit table,	5	
VisitID field (Format: "Short Date"; Description: "Primary Key";		
Size: "4"; Caption: "Visit ID")		
AnimalID field (Data Type: "Short Text"; Description: "Foreign		
Key")		
VisitDate field (Data Type: "Date/Time"; Caption: "Date of Visit")		
Reason field (Data Type: "Short Text", Size: "60", Caption:		
"Reason/Diagnosis")		
OffSite field (Data Type: "yes/no"; Caption: "Off-Site Visit?"		
Add records shown in Figure 2-21 to Billing table	1	
Data imported from Invoices workbook into Billing table	3	
Columns in all tables resized to their best fit	1	
Import Animal table from AllAnimals database into the Riverview	3	
database		
Import Owner table from Kelly database into the Riverview database	3	
Add fields to the Owner database using the Data Type gallery	1	
Address field via QuickStart section (5 fields added ("Address",		
"City", "State Province", "ZIP Postal", "Country Region") Delete "Country Region", "County", and "Notes" fields	1	
Rename: "StateProvince" as "State"; "ZIPPostal" as "Zip"	1	

Edit data types:	4	
Phone field: Data type: "Short Text"; Size: "14"		
Address field: Size: "35"; caption deleted		
City field: Size: "25"; caption deleted		
Sate field: Size: "2"; caption deleted; Default: "WY"		
Zip field: Size: "10"; caption deleted		
OwnerID field: Type: "Primary Key"; Caption: "Owner ID";		
FirstName field: Caption: "First Name"		
LastName field: Caption: "Last Name"		
Add two records to the Owner table, resize columns for best fit	1	
Data imported from Owner text file into Owner table	3	
One-to-many relationships between tables: Primary Owner table /	3	
related Animal table; Primary Animal table / related Visit table;		
Primary Visit table / related Billing table. All field names visible.		
Referential integrity, cascade updates defined for each relationship		
Riverview database compacted / repaired	1	
TOTAL POSSIBLE POINTS:	40	0

YOUR SCORE: _____

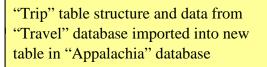
Grading Rubric – Access 2016 Module 2, Review Assignment

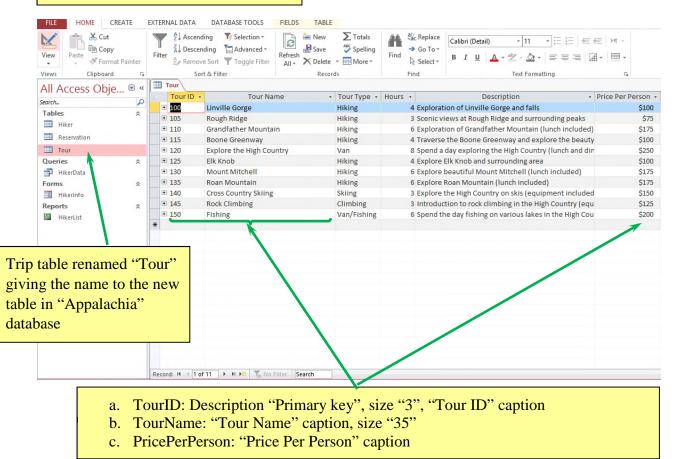
Class: Professor: Notes: Solution Filename: Vendor.accdb

Description	Pts	Your Score
"Vendor" database, "Supplier" table: Field properties as in Fig 2-45	3	
Columns resized to their best fit	1	
Table created using design in Fig 2-46	3	
ProductID primary key, table saved as "Product"	3	
Field added, "Weight" (Data type: "Number"; Size: "Single"; Decimal	4	
Places: "2"; Caption: "Weight in Lbs"; Default Value: [no]) between		
Price / TempControl fields. "Units/Case" positioned between Price /		
Weight fields		
Records in Fig 2-47 entered. Columns resized to their best fit	3	
Data imported from Supplies workbook into Product table	3	
Columns resized to their best fit	1	
One-to-many relationships between tables: Primary Supplier table /	3	
related Product table. All field names visible. Referential integrity,		
cascade updates defined for each relationship		
Vendor database compacted / repaired	1	
TOTAL POSSIBLE POINTS:	25	0

YOUR SCORE: _____

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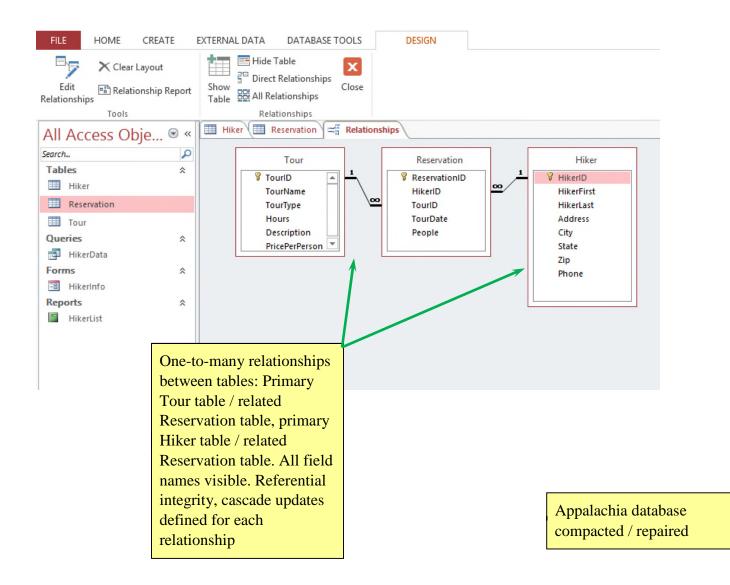




Columns resized to their best fit

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Reservation		3010	544	115	09/16/17	1
		3015	547	115	09/16/17	1
		3020	550	115	09/16/17	1
Queries	*	3025	501	130	09/23/17	2
HikerData		3030 3035	521 535	130 125	09/23/17	2
Forms	*	3035	556	125	09/30/17 09/30/17	
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Reports	*	3045 3050	527 527	105 125	10/07/17	1
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		3060 3065	553 541	110 120	10/07/17	1
		3070	524	120	09/09/17	2
		3075	506	130	09/23/17	2
		3080	509	125	09/30/17	2
		3085	533	125	09/30/17	1
		3090	530	135	10/14/17	3
		3095	515	140	12/16/17	3
		3100	518	145	08/26/17	2
		3105	527	150	08/19/17	3
		3110	544	150	08/19/17	2
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		3120	503	140	12/16/17	2
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Data in the Bookings text file imported into Reservation table Columns resized to their best fit, date values in TourDate field are displayed according to the custom format



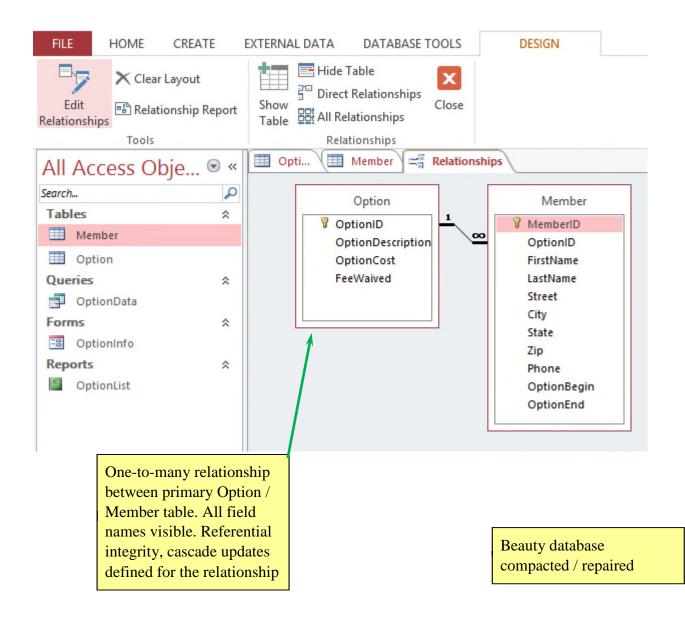
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+	104	Manicure weekly for 12 months	1,200	-
+	105	Manicure bi-weekly for 1 month	70	
+	106	Manicure bi-weekly for 3 months	190	
+	107	Manicure bi-weekly for 6 months	350	-
+	108	Manicure bi-weekly for 12 months	650	-
+	109	Manicure monthly for 3 months	140	
+	110	Manicure monthly for 6 months	250	-
+	111	Manicure monthly for 12 months	450	-
+	112	Pedicure weekly for 1 month	125	
+	113	Pedicure weekly for 3 months	350	-
+	114	Pedicure weekly for 6 months	650	-
+	115	Pedicure weekly for 12 months	1,200	-
+	116	Pedicure bi-weekly for 1 month	70	

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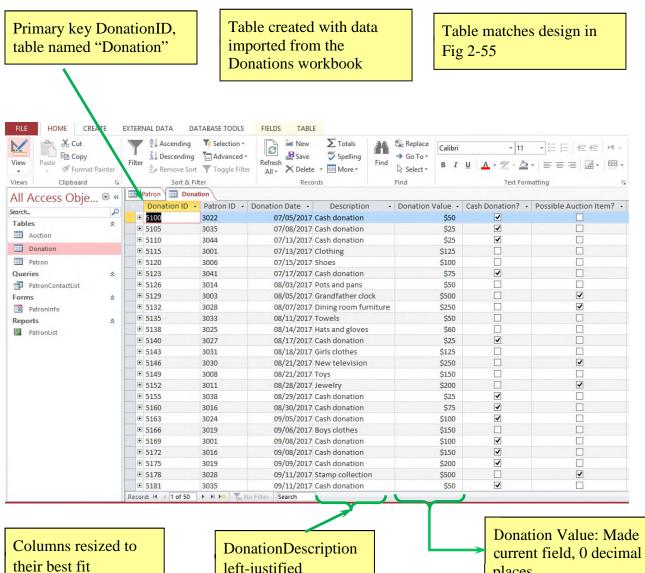


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			± 3006	Dr.	Elbert	Schneider	678-492-9101	countrydoc@example.com		
Donation			± 3008	Mrs.	June	Franklin	404-987-0915	junebug@example.net		
Patron			± 3011	Mr.	Henry	Shelton	678-492-0091	hshelton42@example.com		
Queries	*		± 3014	Mr.	Ben	Jackson	706-917-4019	bennie@example.net		
PatronContactList			± 3016	Mr.	Edward	Jones	404-972-1102	edwardo@example.net		
Forms	\$		± 3019	Mrs.	Jane	Michaels	706-489-3310	jjmichaels@example.com		
Patroninfo			± 3022	Dr.	Taylor	Williams	404-812-9301	thefootdoc@example.net		
Reports	\$		± 3024	Ms.	Catherine	McGill	706-421-4491	mcgill12@example.com		
PatronList			± 3025	Mr.	David	Thomas	706-921-8830	funnyman@example.net		
			± 3027	Mrs.	Kathy	Johnston	404-489-4108	johnstonk123@example.com		
			± 3028	Mrs.	Sue	Jackson	678-321-2019	susieq@example.net		
			± 3030	Mr.	David	Hampton	404-824-3381	thehamptons@example.ne		
			± 3031	Ms.	Elinor	Zak	404-435-9120	elinorzak@example.net		
			± 3033	Mrs.	Lauren	Shelbert	404-421-0021	bertie32@example.com		
			± 3035	Mr.	Bill	Thomas	678-876-9419	thombo42@example.com		
			± 3038	Ms.	Gail	Fordham	404-349-9310	thefordhams@example.net		
			± 3041	Mr.	Frank	Miller	404-824-3431	frankmiller12@example.ne		
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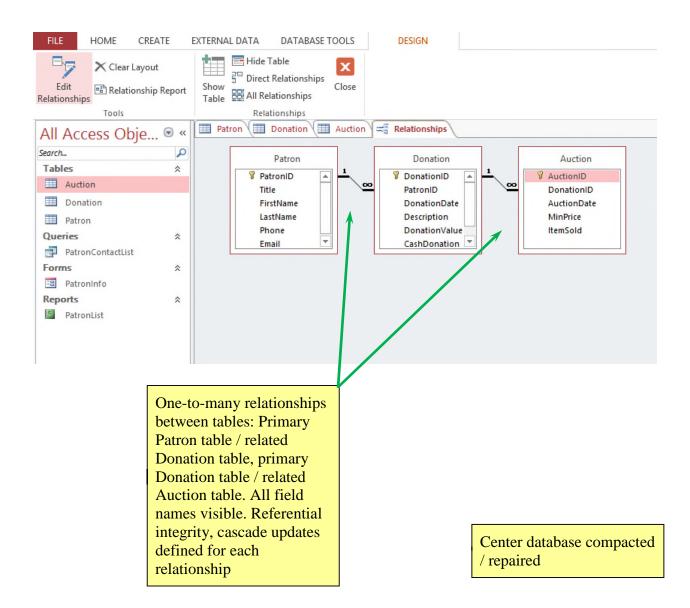


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Contract		± 1003	Carey	Billings	Information Systems	Junior	Eikenville College	3/1/2017	~
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			Sally	Gilbert	Information Systems	Senior	Ellings College	1/15/2017	
Tutor		± 1010	Cathy	Cowler	Computer Engineering	Graduate	Eikenville College	2/1/2017	
Queries	*	E 1013	Aaron	Black	Computer Science	Junior	Smith Technical College	5/14/2017	
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		± 1028	Mike	Johnson	Mechatronics	Senior	Smith Technical College	1/8/2017	
		± 1031	Nichole	Schneider	Computer Science	Junior	Switzer University	2/28/2017	
		± 1033	Barbara	Alzo	Information Systems	Senior	Hogan University	3/12/2017	
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		± 1045	Kelly	Rudd	Computer Science	Graduate	Potswan College	2/27/2017	
		± 1048	Angie	Hinson	Computer Engineering	Senior	Franklin University	5/10/2017	
		± 1051	Donald	Gallager	Computer Science	Graduate	Hogan University	1/18/2017	-
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Tutors conduct group tutoring sessions only: Carey Billings, Fredrik Karlsson, Ellen Desoto, Donald Gallager

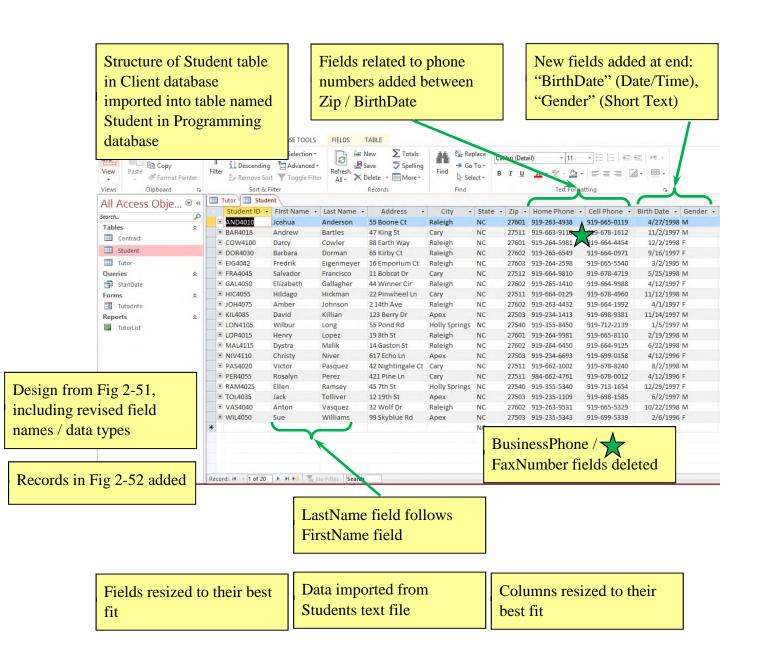
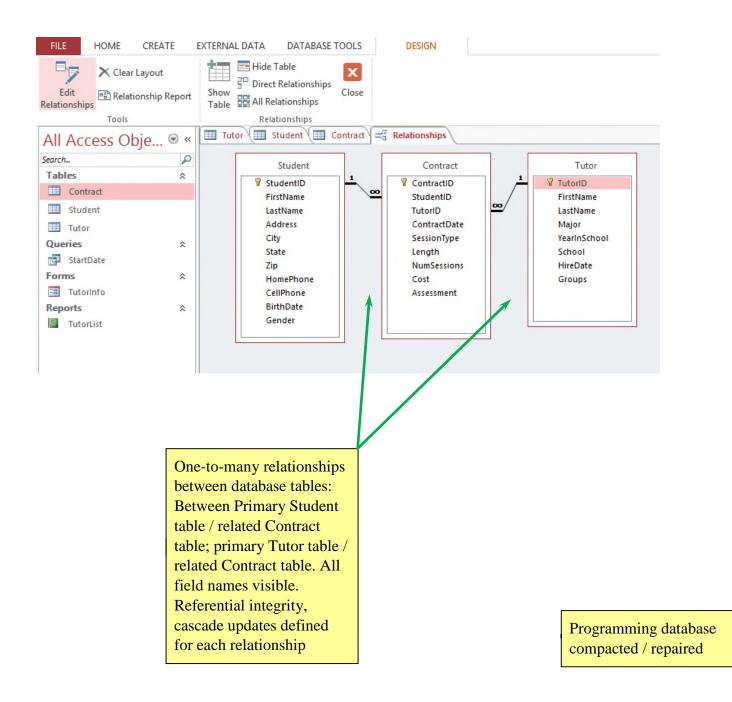


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Tables	*	6220	GAL4050	1015	7/10/2017 Private	1	5 \$3				
Contract		6225	VAS4040	1025	7/18/2017 Group	2	6 \$4				
Student		6230	JOH4075	1005	7/21/2017 Private	1	5 \$3				
Tutor		6235	PAS4020	1005	7/25/2017 Semi-private	3	2 \$3				
Queries	*	6240	MAL4115	1031	8/2/2017 Private	2	3 \$3				
StartDate	~	6245	NIV4110	1031	8/4/2017 Group	2	5 \$4				
Forms		6250	TOL4035	1005	8/11/2017 Private	1	5 \$3				
	*	6255	DOR4030	1003	8/15/2017 Semi-private	2	6 \$7				
TutorInfo		6260	LON4105	1013	8/17/2017 Private	2	5 \$6				
Reports	*	6265	AND4010	1033	8/23/2017 Private	2	4 \$4				
		6270	RAM4025	1023	8/25/2017 Group	2	5 \$4				
Data imported fron	n	6275	BAR4018	1023	8/30/2017 Group	2	5 \$4				
-		6280	COW4100	1003	9/5/2017 Private	3	4 \$7				
Agreements		6285	EIG4042	1015	9/6/2017 Group	2	4 \$7 5 \$4				
-			FRA4045			1	5 \$3				
vorkbook		6290		1020	9/12/2017 Semi-private						
		6295	HIC4055	1042	9/18/2017 Private	2	6 \$7				
		6300	KIL4085	1045	9/26/2017 Private	1	10 \$6				
		6305	WIL4050	1048	9/28/2017 Private	2	10 \$1,2				
·		6315	NIV4110	1060	10/2/2017 Semi-private	2	8 \$9				
Records in Fig 2-54	1	6325	FRA4045	1018	10/3/2017 Group	1	10 \$4				
ceolus in Fig 2-3	+	6330	VAS4040	1025	10/6/2017 Private	2	5 \$6				
dded		6335	JOH4075	1042	10/9/2017 Private	2	10 \$1,2				
uucu		6340	LON4105	1015	10/11/2017 Private	2	4 \$4				
		6350	LOP4015	1010	10/12/2017 Private	3	4 \$7	20 🗸			

Columns resized to their best fit



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	*			11/09/2016 \$50,00 Lab work
nimal				11/09/2016 \$75.00 Updated shots
Ilima				11/09/2016 \$45.00 Flea & tick medications
				11/14/2016 \$35.00 Vertworm medication
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ev				"InvoiceAmt" moved and appears before
e y	*			the InvoicePaid field.
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	imal tura m y itData	imal imal m y * itData s *	Invoice Nu 2098 42099 42100 42110 42110 42111 42112 42118 42119 42125 42126 42126 42127 42128	Invoice Num Visit ID #2099 1002 #2099 1002 #2100 1002 #2100 1002 #2110 1006 #2111 1006 #2112 1006 #2112 1006 #2112 1006 #2112 1006 #2112 1006 #2112 1006 #2112 1006 #2112 1009 #2119 1009 #2125 1012 #2126 1012 #2127 1012

Columns resized to their best fit

VisitID field (Format: "Short Date"; Description: "Primary Key"; Size: "4"; Caption: "Visit ID")

AnimalID field (Data Type: "Short Text"; Description: "Foreign Key")

VisitDate field (Data Type: "Date/Time"; Caption: "Date of Visit")

Reason field (Data Type: "Short Text", Size: "60", Caption: "Reason/Diagnosis")

OffSite field (Data Type: "yes/no"; Caption: "Off-Site Visit?"

Views Clipboar	TV	Sort &	_	Records	Find
All Access Obj	e 🗟 « 📘	Billing Wie			
earch	Q	Visit ID	 Animal ID 	 Date of Visit - Reason/Diagnosi 	s 🔹 Off-Site Visi 🧃
Tables	*	± 1002	12282	11/8/2016 Vaccinations	
	~	± 1006	12290	11/11/2016 Vaccinations	
		± 1009	12308	11/15/2016 Nail clipping and gro	oming 🗌
Billing		± 1012	12335	11/18/2016 Vaccinations	✓
Owner		± 1013	12337	11/18/2016 Vaccinations	~
Visit		1014	12340	11/18/2016 Vaccinations	~
Oueries	*	± 1015	12343	11/18/2016 Vaccinations	~
VisitList		± 1016	12345	11/18/2016 Vaccinations	~
Forms	*	± 1020	12328	11/21/2016 Injured wing	
E VisitData	^	1024	12312	11/22/2016 Vaccinations	
Reports	*	± 1028	12300	11/28/2016 Grooming	
VisitDetails	~	± 1032	12296	11/28/2016 Grooming	
VisitDetails		± 1036	12294	11/29/2016 Declawing	
		± 1040	12286	12/1/2016 Vaccinations	
		± 1044	12278	12/2/2016 Vaccinations	
		± 1048	12318	12/2/2016 Injured paw	
		± 1052	12325	12/5/2016 Ear issue	
		± 1056	12332	12/6/2016 Spaying	
		± 1060	12322	12/8/2016 Vaccinations	
		± 1064	12315	12/9/2016 Injured paw	
		± 1070	12350	12/12/2016 Vaccinations	~
		± 1071	12353	12/12/2016 Vaccinations	•
		1072	12356	12/12/2016 Vaccinations	-
		± 1073	12359	12/12/2016 Vaccinations	•
		± 1074	12362	12/12/2016 Vaccinations	~

Columns resized to their best fit

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Paste

Import "Animal" table from AllAnimals database into the Riverview database

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All Access Obje	⊛ «	🔠 Billing 🛄 Vis	t Animal				
earch	Q	Animal ID 🝷	Owner ID 🔻	Animal Name 🔹	Animal Birth Date 🔹	Animal Type 🔻	Animal Breed
Tables	*	± 12278	2412	Bailey	05/09/2013	Dog	Beagle
Animal	^	± 12282	2310	Whiskers	04/10/2014	Cat	Burmese
		± 12286	2318	Lady	08/12/2015	Dog	Border collie
Billing		± 12290	2325	Rustle	09/02/2015	Dog	Australian shepher
Owner		± 12294	2335	Bushy	03/02/2015	Cat	Himalayan
Visit		± 12296	2350	Patches	02/09/2013	Cat	Siberian
Oueries	\$	± 12300	2358	Buddy	08/02/2013	Dog	Russell terrier
VisitList		± 12304	2366	Tweets	11/12/2010	Bird	Parakeet
Forms	*	± 12308	2375	Rosie	07/05/2013	Dog	Dalmatian
I VisitData	^	± 12312	2412	Molly	04/29/2009	Dog	Labrador retriever
Reports	*	± 12315	2380	Silly	05/02/2012	Dog	Chihuahua
		± 12318	2314	Tracker	04/29/2013	Dog	Bloodhound
VisitDetails		± 12322	2322	Ellie	12/22/2014	Dog	Scottish terrier
		± 12325	2340	Butch	11/16/2012	Dog	Bulldog
		± 12328	2354	Lovie	02/03/2002	Bird	Lovebird
		· 12332	2370	Smittie	05/19/2014	Cat	American shorthai
		± 12335	2384	Hereford1	02/04/2015	Cattle	Hereford
		± 12337	2384	Hereford2	03/18/2015	Cattle	Hereford
		± 12340	2384	Hereford3	04/02/2015	Cattle	Hereford
		± 12343	2384	Hereford4	04/17/2015	Cattle	Hereford
		· 12345	2384	Hereford5	04/28/2015	Cattle	Hereford
		± 12350	2388	Merino1	03/14/2014	Sheep	Merino
		· 12353	2388	Merino2	04/21/2014		Merino
		± 12356	2388	Merino3	04/28/2014	Sheep	Merino
		± 12359	2388	Merino4	08/02/2014		Merino

Import "Owner" table from Add fields to the Owner database using the Data Type gallery Kelly database into the Address field via QuickStart section (5 fields added ("Address", **Riverview** database "City", "State Province", "ZIP Postal", "Country Region") BASE ∑ Totals Selection -New ab Hac Re lace * · EE @@ M · 3 Calibri (Detail) - 11 Advanced -Spelling Save -> Go Find View Paste Filter Refresh U <u>A</u> · ¹⁄₂ · <u>△</u> · ≡ ≡ ≡ <u></u>A · <u>□</u> · Т Format Painter X Delete -More * Select 🕺 Remove Sort 🍸 Toggle Filter All -Text Formatting Clipboard Sort & Filter Find Views 5 Records Billing Visit Animal Owner All Access Obje... . « Phone Owner ID - First Name - Last Name Address City State Email Zip -P Search... + 2310 Student First Student Last 307-824-1245 12 Elm Ln 2414 student@example.com Cody Tables \$ **# 2314** Sally Cruz 307-406-4321 199 18th Ave Ralston W 82440 scruz@example.com Animal H 2318 Sandra Pincher 307-982-8401 12 Rock In Cody w 82414 sp231@example.com Billing 307-843-9810 21 Simple C **# 2322** Billy Ruffton 82435 br299@example.com Garlar Owner ± 2325 Barbara Fishman 307-987-0092 2 Jimmy Rename: "StateProvince" as "State"; Gonzalez 307-987-0334 16 Visit ± 2335 Joey Smith 307-888-4239 17 Oueries "ZIPPostal" as "Zip" Melan Jackson 307-882-1925 42 VisitList 307-887-8873 75 Dan Poleman Forms 307-887-1239 Ralston ssmith@example.com Samantha Smith 14 Rock Ln WY 82440 I VisitData ± 2354 Randy Blacksmith 307-882-9987 245 18th Ave Cody 82414 blacksmith@example.com WY Reports ± 2358 Hendricks 307-943-2234 27 Locklear Ln Powell WY 82440 angie@example.com Angie VisitDetails ± 2362 82440 tj@example.com Thomas Jones 307-985-9981 622 Bobcat Tr Ralston WY ± 2366 Jackson 307-984-1182 17 Ridge Rd Cody WY 82414 ai17@example.com Aaron ± 2370 Billings 307-824-1802 14 Elm Ln Curt Cody WY 82414 curtbillings@example.com 307-824-9863 42 Rock Ln 82414 otterman42@example.com Joseph Otterman Cody WY ± 2380 Billy Smith 307-887-4829 312 Oak Rd Ralston WY 82440 bsmith@example.com **# 2384** Susan Miller 307-824-2756 1283 Old Roundabout Rd Cody WY 82414 susanfarms@example.com Sprawling ± 2388 Jack 307-824-8305 1 Sprawling Farm Rd Cody WY 82414 sprawlingfarms@example.com ± 2392 Elmer Jackson 307-843-8472 22 Jackson Farm Rd Garland WY 82435 ElmerJ22@example.com ± 2396 Richie 307-824-9876 155 Cherry Canyon Rd Cody WY 82414 uptonfarms@example.com

307-883-9481 123 Sheepland Rd

307-824-3575 1 Rascal Farm Rd

307-868-8862 412 River Rd

307-943-2469 880 Powell-Cody Rd

Edit data types: Phone field: Data type: "Short Text"; Size: "14" Address field: Size: "35"; caption deleted City field: Size: "25"; caption deleted Sate field: Size: "2"; caption deleted; Default: "WY" Zip field: Size: "10"; caption deleted OwnerID field: Type: "Primary Key"; Caption: "Owner ID": FirstName field: Caption: "First Name" LastName field: Caption: "Last Name"

Leslie

Reggie

Tom

Taylor

F H

± 2400

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Record: H

Upton

Smith

Baxter

Rascal

Johnson

Delete "Country Region", "County", and "Notes" fields

82433 sheepland@example.com

82440 baxterfarms@example.com

82414 rascalfarms@example.com

82414 taylorj@example.com

Elk Butte WY

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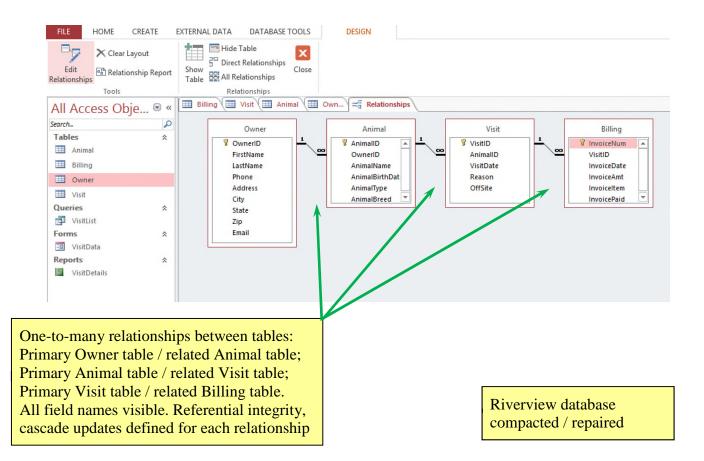
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Cody

Add two records to the Owner table, resize columns for best fit; Data imported from Owner text file into Owner table

Columns resized to their best fit



	erties set a	le: Field as in Fig 2-45						Colui best f	mns res ït	ized to	their
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ll Access Obje 💿	Supplier ID	Company -	Category +	Address +	City	Chatta	71.0	Context Disc	Contract First	Contractions	Initial Contact -
arch	D E APL619	A+Labs		619 West Dr	City - Omaha			531-219-7206		Dupont	4/10/2017
ables 🌼		All Things for Birds	Resale	512 Canary Way	Tulsa			539-498-0041		Miyamoto	1/16/201
Product	# BOS412	Boston Medical	Equipment		Boston			617-984-3961		Smith	3/2/201
Supplier	E CW1444	Cat World Inc.	Supplies	444 Boxcar Way	San Diego		92110	619-477-9482		Kline	5/1/201
ueries *		Dexter Supplies	Supplies	12 Supply Rd	Wichita		67202	316-811-2109		Claxton	4/16/201
SupplierList	# FTS123	Flea & Tick Supplies	Resale	123 Overlook Ln	Atlanta			404-341-2981		Jackson	3/6/201
orms 🌣		Green Gill Food	Resale	99 Guppie Ln	Orlando					Lowry	4/2/201
SupplierInfo		Henry's Pet Food	Resale	42 Elm Rd	Knoxville		37902	865-321-0081	,	Samuels	1/16/2017
eports 🌣	E IPS009	Iomega Pet Supplies	Supplies	9 International Dr	Dallas	TX	75202	469-592-9401	Xavier	Jackson	3/21/2017
SupplierDetails	IMS499	Jimison Medical Supplies	Supplies	499 Techway Blvd	Columbia	SC	29202	803-418-9982	Louise	Jimison	5/7/201
-		Kilgore Lab Supplies	Supplies	321 Production Ave	Adolphus	КҮ	42120	270-397-1008	Tammy	Kilgore	4/19/2017
	E LASO11	Luxury Aminal Supplies	Resale	11 Peakview Rd	Asheville	NC	28801	828-432-9401	Sharlene	Packson	1/26/2017
		Montreat Medical Supplies	Supplies	311 Supply Rd	Montreat	NC	28757	828-432-9910	Charley	Smith	2/6/201
		No Flea Guarantee	Resale	1 Plyler Cir	Hillsville	VA	24343	276-942-8820	Zack	Plyer	3/21/201
		Pet Medical	Equipment	19 Waverly Ct	Blacksburg	VA	24061	540-702-0098	Julie	Baxter	2/21/2017
	E PUP092	Puppy World	Resale	92 Bark Rd	Athens	GA	30602	762-498-5081	Makayla	Robinson	2/15/201
		Quincy Lab Supplies	Supplies	2 Plainview Rd	Columbus	OH	43085	614-591-3091	Jackson	Palmer	4/17/201
	E RPF001	Ramsey Pet Foods	Resale	1 Mountainview Way	Billings	MT	59102	406-824-9980	Phillip	Ramsey	3/19/201
		Yummy Dog Food	Resale	345 Riverside Dr	Charlotte	NC	28201	704-205-8725	Student First	Student Last	2/1/201
					Worcester	414	01602	508-431-9200	Zack	Brown	3/21/201
		Zack's Pet Supplies	Resale	6 Pond Dr	worcester	IVIA	01002	500 451 5200	LOUN	brottin	5/ 22/ 201

ProductID primary key,

Field added, "Weight" (Data type: "Number"; Size: "Single"; Decimal Places: "2"; Caption: "Weight in Lbs"; Default Value: [no]) between Price / TempControl fields. "Units/Case" positioned between Price/Weight fields

table saved as "Product" ASE TOOLS FIELDS TABLE X Cut Ascending Ty Selection ia New Σ Totals ab Replace 3 Ĥ ・日日 産産 州 Calibri (Detai - 11 Copy Save Spelling A Descending Advanced -→ Go To + View Paste Filte Refresh Find ▲・堂・塗・ 三 三 三 涌・ 🕮 BI 🖋 Format Painte Select * U ove Sort 🍸 Toggle Filter 🗙 Delete 👻 🔛 More * All oo. & Filter Records Find Text Formatting Views Clipboard Supplier I Product All Access Obje... • « Product ID - Supplier ID -Price + Units/Case + Weight in Lbs + Temp Controlled? + Sterile? + Product Name Search... P AT222 KLS321 Adhesive tape roll 75.00 25 3 Tables \$ AU982 BOS412 Autoclave 4,500.00 75 1 Product Blood collection vial • BC100 KLS321 47.00 20 1 Supplier BN111 QLS002 Blood collection needle - large ✓ 17.00 10 1 Queries QLS002 -BN222 Blood collection needle - small 16.00 10 1 SupplierList BS100 ATB512 Premium bird seed 50.00 10 20 Forms \$ BV100 JMS499 Bordetella vaccine 72.00 10 --1 E SupplierInfo CB100 IPS009 Cat bowl 40.00 10 4 ZPS006 25.00 CB999 Cat bed 4 Reports \$ 1 SupplierDetails CC001 CWI444 Cat collar 75.00 10 1 CC500 LAS011 Luxury cat collar 47.00 5 2 CE432 APL619 Centrifuge 5,500.00 1 50 CF111 CWI444 Premium moist cat food 60.00 20 • ✓ 3 CW1444 CF222 Premium dry cat food 55.00 25 7 CF600 NEG001 Cat flea medicine 62.00 5 1 CG001 ATB512 Deluxe bird cage 75.00 1 15 CT100 FTS123 Cat tick collar 70.00 10 CW1444 CT500 Cat toy 10.00 10 2 -Cattle viral respiratory vaccine CV500 NFG001 137.00 10 1 -DB100 IPS009 Dog bowl 40.00 10 4 DB888 ZPS006 Dog bed - large 48,00 1 7 DB999 ZPS006 Dog bed - small 38,00 1 б DC500 LAS011 Luxury dog collar 52.00 5 2 HPF042 **DF100** Premium dry dog food 65.00 10 40 DF200 HPF042 Premium moist dog food 35.00 10 • -2 Record: H 4 1 of 51 + H 🛤 🖉 No Filter Search

Records in Fig 2-47 entered. Columns resized to their best fit Data imported from Supplies workbook into Product table Columns resized to their best fit

