3. Modify an Imported Table's Design

- a. Double-click the **Travelers table**. Switch to Design view. Make the following changes:
 - Add a caption to the TravelID field of **Travel ID**.
 - FirstName: Caption-First Name; Field size-30.
 - LastName: Caption–Last; Field size–30.
 - Zip: Change field name to **ZipCode**; Caption–**Zip Code**; Data Type–**Text**.
 - Phone: Remove @ from the Format field.
 - PastGuest: Caption-Past Guest; Data Type-Yes/No.
 - TripID: Data type-**Text**; Caption-**Trip ID**; Field Size-**4**.
 - BalanceDue: Data type–Currency; Caption–Balance Due.
- b. Type a new field name JoinDate under the BalanceDue field name. Use the following properties: Data type–Date/Time; Caption–Join Date; Format–Short Date. Click View. Read the messages, and then click Yes twice.
- c. Add Join Date values for the first two records of March 22, 2010 and September 12, 2011.
- d. Right-click the **Trips table**. Select **Design view**. Make the following changes:
 - TripID: Data Type-**Text**; Field Size-**4**; Caption-**Trip ID**.
 - TripName: Caption-Trip Name; Field Size-100; remove @ symbol from Format field.
 - DepartureDate: Caption-Departure Date; Data Type-Date/Time; Format-Short Date from the Format field property.
 - ReturnDate: Caption-Return Date; Data Type-Date/Time; Format-Short Date. Click Save.
- e. Click OK in both messages. Close the Trips table. Click the Travelers table tab. Switch to Design view. Click the ZipCode field name, and then click Input Mask in Field Properties. Click Build. Click Zip Code. Click Next. Remove the hyphen and four 9s from the Input Mask. Click Finish.
- f. Click the **Phone field name**, and then click **Input Mask**. Click **Build**, and then click **Save**. Select the **Phone Number Input Mask**. Click **Finish**. Click **Save**.

4. Add Data to an Imported Table

a. Click View in the Views group to display the Travelers table in Datasheet view. Click the Travel ID field in the last blank record. Type 1011. Fill in the rest of the data using your information as the customer. Use fictitious info for all fields except the TripID field. For TripID, type 3200. Close the Travelers table.

b. Open the Trips table. In a new row, click in the Trip ID column. Type 3200 as the Trip ID, Scottish Charm as the Trip Name, and 8 for the Duration. Type 9/3/2011 for the Departure Date and 9/11/2011 for the Return Date. Close the Trips table.

5. Establish Table Relationships

- a. Click the **Database Tools tab**, and then click **Relationships**. Add all tables to the window. Close the Show Table dialog box. Create a relationship between the TripID field in the Hotels table and the TripID field in the Trips table. Check **Enforce Referential Integrity** and **Cascade Update Related Fields**. Click **Create**.
- b. Create a relationship between the TripID field in the Trips table and TripID field in the Travelers table. Check Enforce Referential Integrity and Cascade Update Related Fields. Click Save, and then close the Relationships window.

6. Test Referential Integrity

- Double-click the Hotels table. Add a new record: Hotel ID, IT02; Trip ID, 3250; HotelName, Caesars Villa; PricePerNight, 200; PartnershipDate, 10/12/10. Press Tab, explain the error message; and then click OK.
- b. Double-click on Trips table. Note there is no 3250 record. Close the Trips table. Replace 3250 with 3150 in the new Hotels record. Press Tab three times. Close the Hotels table. Reopen the Hotels table, and then verify the change for IT02. Close all tables.

Single Table Queries

You decide to test your database structure by experimenting with criteria specifications and sorting.

1. Create a Query Using a Wizard

- a. Click the **Create tab**, and then click **Query Wizard**. Click **OK**. Click the **Tables/Queries arrow**, and then select **Table: Travelers** (if necessary). Select **TraveIID**, and then click the **> button**.
- b. Add **FirstName**, **LastName**, **TripID**, **TripName**, and **BalanceDue fields** to the query. Click **Next**. Confirm **Detail** is selected, and then click **Next**. Name the query **Balance Due**. Click **Finish**.

2. Specify Query Criteria and Sorting

- a. Click the **Home tab**, and then click **View**. Type **3102** as criteria for TripID.
- b. Sort the LastName column as Ascending. Click **Run**, and then save the query.

3. Change Query Data

- a. Click the **BalanceDue field** in the record for TraveIID 1005. Change *\$1,450* to **\$1400**. Press **Enter**. Close the query. Open the Travelers table; confirm the change for Travel ID 1005.
- b. Open the Travelers table, and then locate *Travel ID 1007*. Change the balance due to **\$100.00**. Close the Travelers table. Open the Balance Due query.

Multi-Table Queries

You will generate a list of all travelers who have upcoming trips with a balance due that is greater than \$2,000.00. You will then modify the query.

1. Add Additional Tables to a Query

- a. Right-click the **Balance Due query**, and then select **Design View**. Drag the **Trips table** from the Navigation Pane to the design grid. Drag the **TripName field** from the Trips table to the grid.
- b. Add the **Duration field** from the Trips table to the design grid. Click the **Show check box** under TripID. Remove the existing criteria from TripID. Remove the Ascending sort from LastName. Type **7** as a criterion for Duration, and then press **Enter**. Sort the BalanceDue field in Descending order, and then click **Run**.
- c. Click View. Drag the Hotels table from the Navigation Pane to the top portion of the design grid. Drag the HotelName field in the Hotels table to the left of the Duration field column in the design grid. Delete the TripName field. Press Delete, remove the criteria from the Duration field, and then click Run. Save, and then close the query.

2. Create a Multi-Table Query

- a. Click the **Create tab**, and then click **Query Design**. Double-click each table name in the Show Table dialog box.
- b. Click Close in the Show Table dialog box. Double-click the following fields: LastName, FirstName, BalanceDue, TripID. Type >= 2000 as criteria for BalanceDue. Click Run, click Save, and then type Scheduled Trips-Balance Over 2000 as the name.

3. Modify a Multi-Table Query

- a. Click View. Type <=1500 in place of >2000 as criteria for the BalanceDue field. Double-click the DepartureDate field to add it to the design grid. Type <8/8/2011 as criteria for DepartureDate. Run the query.
- b. Click the **File tab**, and then click **Save Object As**. Type **Balance Less than 1500 Trips Prior to August 2011**. Click **OK**, click the **File tab**, and then click **View**. Sort the DepartureDate field as Ascending. Click **Run**. Save, and then close the query.