

CA141 – Homework #5

Objective: Practice creating a four table database by importing three Access tables, set the joins by creating lookup lists, setting referential integrity, printing relationship view, set field properties, view and save resulting subdatasheets.

Create three tables...

1. Create a new database called ***CruiseReservations_yourfirstname***.
2. Import the following tables from [PracticeHW5.accdb](#), this file can only be downloaded from our class schedule web site.
 - *tblCruises*,
 - *tblPassengers*,
 - *tblReservations*,

Set the following Field Properties

tblPassengers

1. Set an existing field as the table's primary key.
2. Set or verify the primary key's Index field property.

tblCruises

1. Create a new field to be used as the primary key, name it appropriately.
2. Set the new primary key field so the data consists of required four uppercase letters with the last digit a required single digit number (0-9).
3. Set the field size appropriately.
4. Add new primary key data to each record BEFORE setting the field as a primary key. Why? Access will not save the table if the PK field "data" is empty or null. Enter data using the first four letters of the SHIP name followed by a sequential number starting at 1 and incrementing. Example, ShipName "Delfina" set ShipID "DELF1", next "Delfina" cruise "DELF2".
5. Lastly, set the primary key field property, so that it will always be unique.

tblReservations

1. Create a relationship (or join) from each of the two master tables (*tblPassengers* and *tblCruises*) to the transaction table *tblReservations*.
2. Set the appropriate relationship type using Index.

Create Lookups

1. In ***tblPassengers***, create a Lookup Property for the field "City" where the source is a value list of five cities that you pick from the table.
2. Create a ***tblStateAbbreviations*** that contains two fields 1) the state abbreviation and 2) full state name. Set the PK appropriately. Use only these states: CA, NM, AZ, NV, OR, WA, UT, ID, CO and WY.
3. In ***tblPassengers***, create a Lookup Property for the field "State" where the source is ***tblStateAbbreviations***.
 1. Lookup shall show in order, the state abbreviation then the state name
 2. Set the list to alphabetical order on the State Abbreviation field.
 3. Display both fields in the combo box.
 4. Show/store the State Abbreviation field in ***tblPassengers*** after chosen.
 5. Rename field to designate it is a Lookup field.
4. In ***tblReservations***, set the appropriate field to Lookup the Cruises
 1. Lookup shall show in order, the Ship's ID, ship's name then company name
 2. The ship's name and company name shall be shown in alphabetical order,
 3. Show/store the ship's ID number data in ***tblReservations***, after chosen.
 4. Rename field to designate it is a Lookup field.
5. In ***tblReservations***, set the appropriate field to Lookup the passenger list
 1. Lookup to provide last name then first name in alphabetical order,
 2. do not show the primary key data,
 3. Show/store the passenger's last name as data in ***tblReservations***, after chosen
 4. Rename field to designate it is a Lookup field.

REFERENTIAL INTEGRITY

1. In Relationship View, display the relationship type by enforcing referential integrity between ***tblCruises*** and ***tblReservations***.
2. In Relationship View, display the relationship type by enforcing referential integrity between ***tblPassengers*** and ***tblReservations***.
3. In Relationship View, display the relationship type by enforcing referential integrity between ***tblStateAbbreviations*** and ***tblPassengers***.
4. Print the Relationship View Report and turn in Relationship View.
5. Close print preview and save the report to the name ***rptRelationshipView***.

SUBDATASHEETS

1. Add data 12 records in the ***tblReservations*** in datasheet view
 1. Using the Lookup list in fields to select a cruise and a passenger combination,
 2. Set at least one passenger to take three different cruises,
 3. Add a price that passenger will pay for that cruise.

2. View and/or create the subdatasheet in ***tblCruises*** (one) that displays the passengers that have reserved (Many) a cruise on that ship. "Expand All" the subdatasheet to show all passenger list and save the table in this view.
3. View and/or create the subdatasheet in ***tblPassengers*** (one) that displays the one or more cruises the passenger has reserved. "Expand All" the subdatasheet to show all cruises the passenger have made reservations on and save the table in this view.

Hand in

1. Bring the Relationship View printout to class and hand in.
2. Submit your homework file by uploading it via the class web site.
3. Due by next class by 6 pm.