

DOUGIEBASE

# A DataBase. A PWA coded in JavaScript and jQuery



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## Chapter 3

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# Creating New Tables

## Overview

After DougieBase generates the main table of the database, more tables can be created by the user.

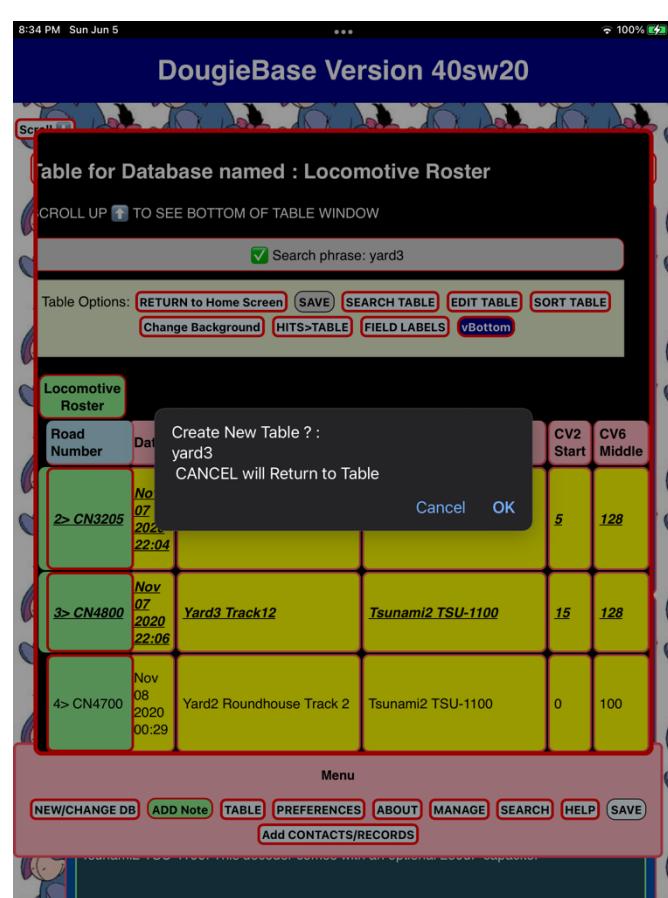
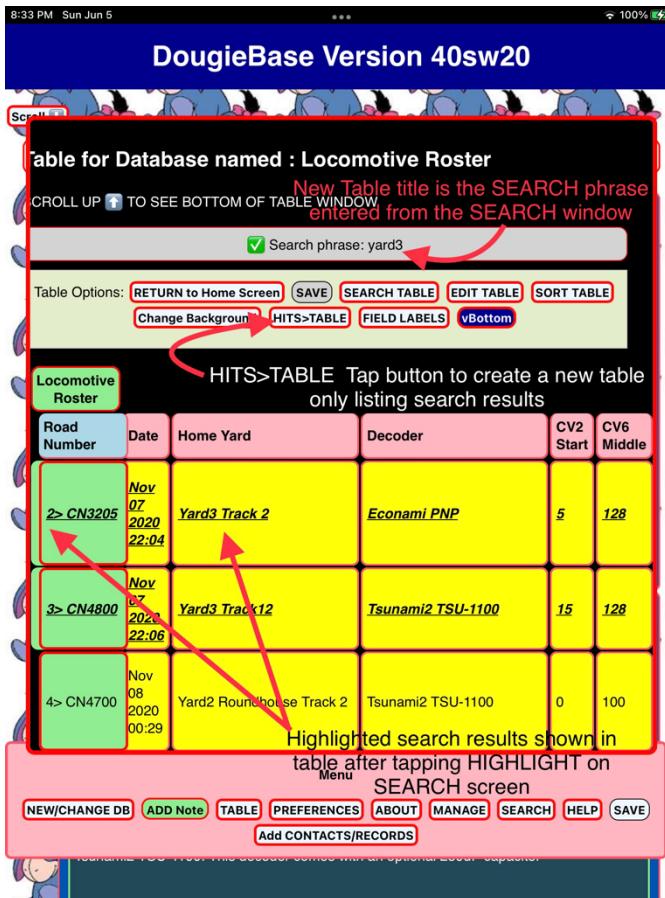
There are 4 kinds of tables in DougieBase.

1. The MAIN table is derived from each DougieBase database and is automatically generated when a new database is created. This is the table shown when you tap the DISPLAY TABLE button on the Table Options information screen. A MAIN table can be edited, records and dynamic fields added or deleted, searched and sorted. This is documented in Chapter 2.
2. The second class of table is one created from found records in a SEARCH of either a MAIN database table or a newly created table.. A table created from a SEARCH of a MAIN table has some limitations in that Data can be searched and sorted, but new records can not be added or deleted. If you need to ADD a record to this table type, you have to revert back to the MAIN database table, from which it originated, and ADD/ or DELETE records to/from the MAIN table, and then repeat the SEARCH to recreate the changed table with the now added record. A table created from the SEARCH results of a newly created table does not have this limitation. New records can be added or deleted using the + and – buttons in the table options menu.
3. The third class of table references CONTACTS only, .. Contacts that you want to be associated with the database. This method of table creation has automatic access to the CONTACTS on your device by way of the browser's contactPickerAPI . (Application Interface)
4. CUSTOM TABLES: Custom tables can be created in two ways:

A By using a CONTACTS table as a template, relabeling the FIELD names using the EDIT menu button, will create customized tables. Data can be automatically extracted from the device's Contacts.

. B The ADD CONTACTS/RECORDS button in the Main menu allows labelling of the table field names on the fly, as you create the table and enter record data into the fields from a FORM input window.. The browser's contactPickerAPI is not available from this method so data has to be entered manually.

## Creating tables from a SEARCH of the main database table or a new table.



After doing a SEARCH of a table using any search phrase, a new table can be created showing just the records that contain the search phrase or record title. When the results of the SEARCH reappear in the table with the searched for hits highlighted, you will now see a new button menu option in the table menu labelled **HITS>TABLE**. Tapping this button brings up the prompt window allowing you to create a new table that just lists the results of the search.

The **CANCEL** button aborts the new table creation, returning you to the home screen.

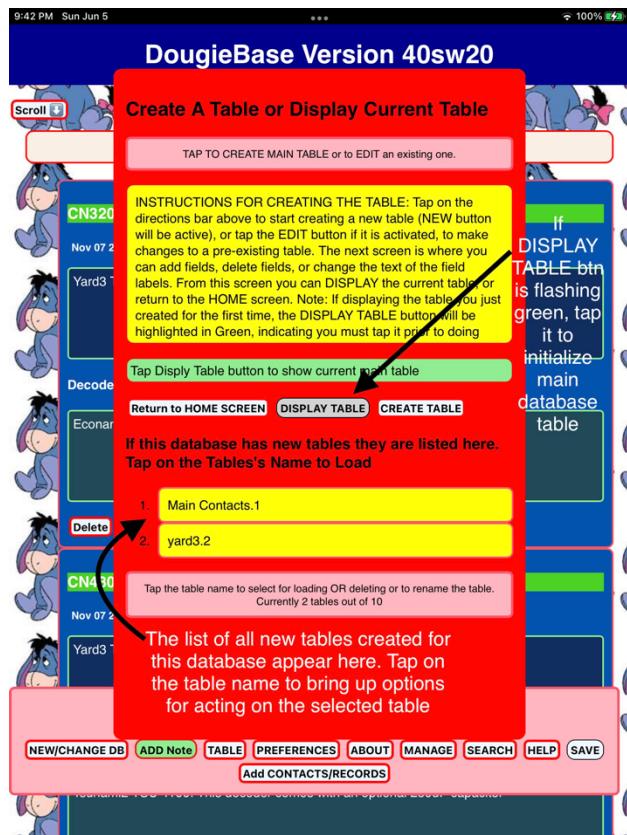
### The next window allows you to enter a name for this new table:

. The default entry is the search phrase itself that was searched for on the original table. The entered



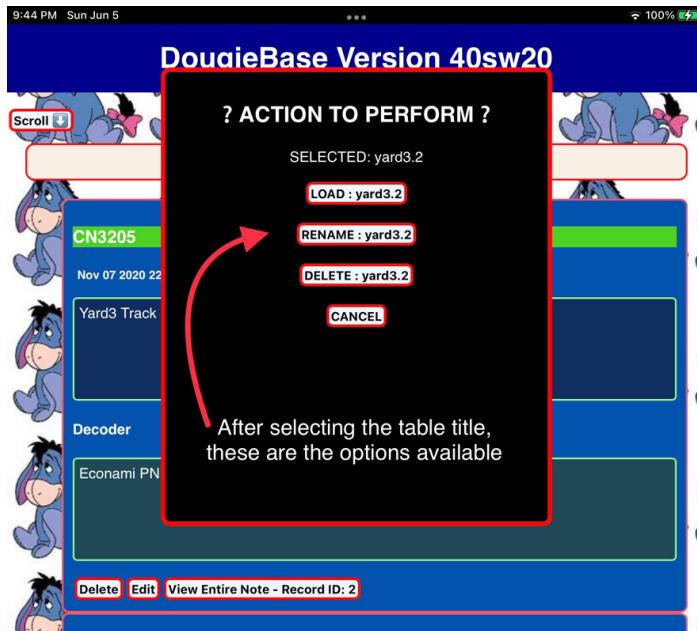
name becomes the TITLE of the newly created table.

After tapping the **ENTER new table name** button you are required to follow the flashing button prompts to complete the process. Tap in order of their appearing, the flashing **TABLE** button on the



main menu screen, the **SAVE** button (you will be asked to **SAVE** the new table), then the flashing '**Clear Contacts table**' button. When you return to the table options screen, the newly created table is now listed.

**Tapping on the name of the new table brings up a window showing the actions that can be taken on this table.**

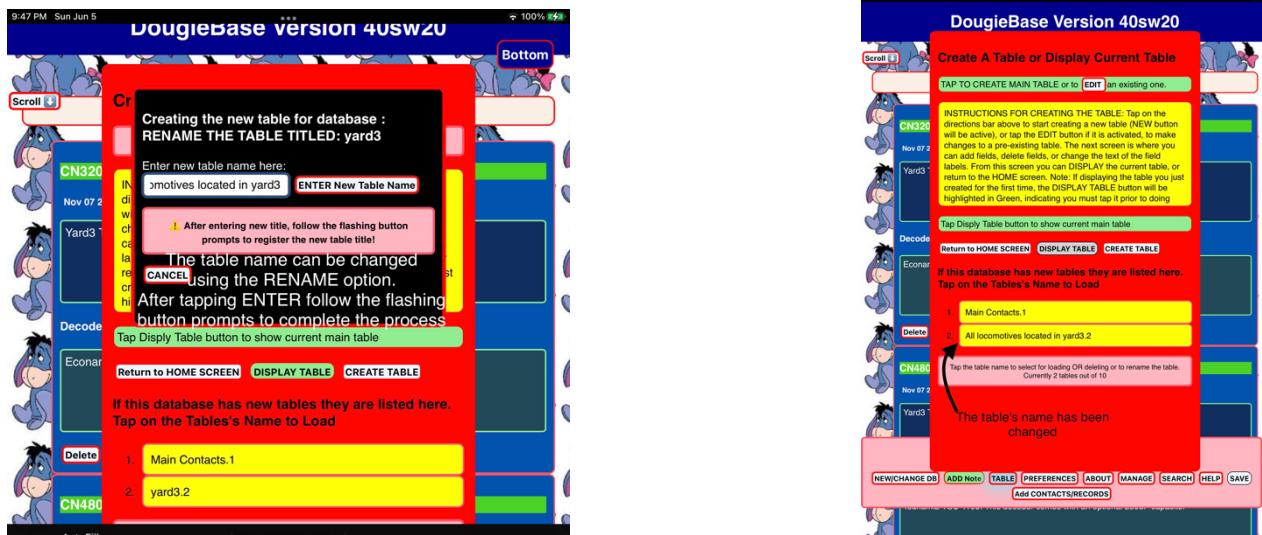


These actions are available to all the new tables created by the user. The **LOAD** button presents the new table for viewing.

The **RENAME** option will change the name of the table.

**DELETE** removes the table from the database.

## RENAME a Table



After choosing the **RENAME** option, the **RENAME** window appears. Edit the default entry and tap '**ENTER New Table Name**'. DougieBase then brings up the required windows automatically with the buttons flashing that need to be 'tapped' to complete the rename process. In order of their appearance, tap the **Return To HOME SCREEN** button, the **TABLE** button in the Main menu bar, **DISPLAY TABLE** button on the Table Options screen, then the **SAVE** button on the table screen, followed by the **RETURN to HOME SCREEN** button on the Table Window. DougieBase guides you through these events by bringing up the next 'flashing' button as you tap them. Returning to the list of tables reveals that the table name has been edited.

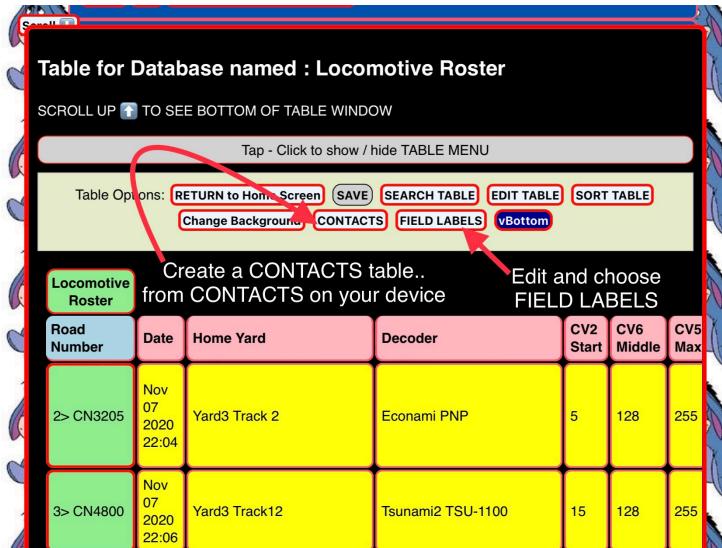
Tapping the **DELETE** table button removes the selected table from the list and from DougieBase. A deleted table can not be retrieved unless you have backed up the entire database previously.

## Creating tables from CONTACTS

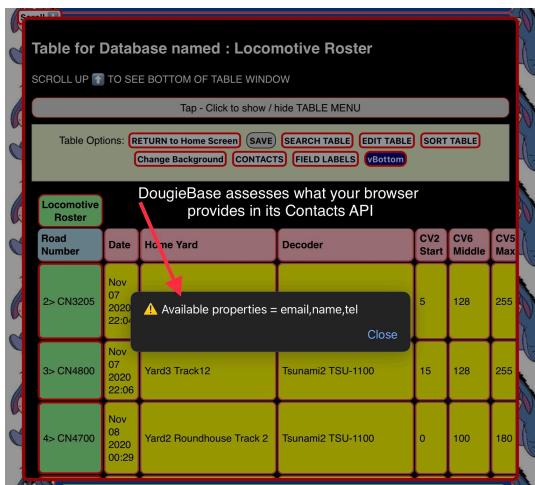
The third class of table references **CONTACTS** only, .. Contacts that you want to be associated with the database. **CONTACTS** tables can be created in 3 ways:

- A. By tapping the **CONTACTS** button in the menu of a MAIN database table - this method allows access to the **CONTACTS** app on your device.
- B. By tapping the **CREATE TABLE** button on the Table Information window that appears after tapping the **TABLE** button on the home screen main menu bar. The **CREATE TABLE** option has the same facility as the **CONTACTS** button in the Table window menu.
- C. By tapping the **ADD CONTACTS/RECORDS** button on the main database HOME screen menu. - This allows manual entry of Contacts data from a form sheet. There is no access to the **ContactsPickerAPI** (**Contacts**) on your device.

Tapping the **CONTACTS** button in the TABLE menu begins the process of creating a table from your selected contacts on your device.



After tapping **CONTACTS** DougieBase automatically assesses the capabilities provided by your browser's contactsPickerAPI. Most browser's supply email, name, and telephone fields. Some also provide an ADDRESS field. DougieBase will tell you what the browser you are using provides in this regard. After tapping CLOSE in the notice pop up, the selection screen for your devices contacts appears allowing you to select the contacts you want to appear in your table.



DougieBase assesses what your browser provides in its Contacts API

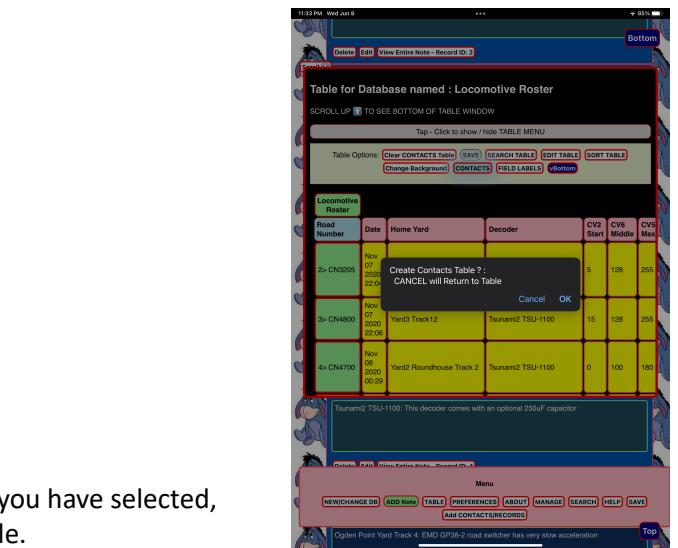
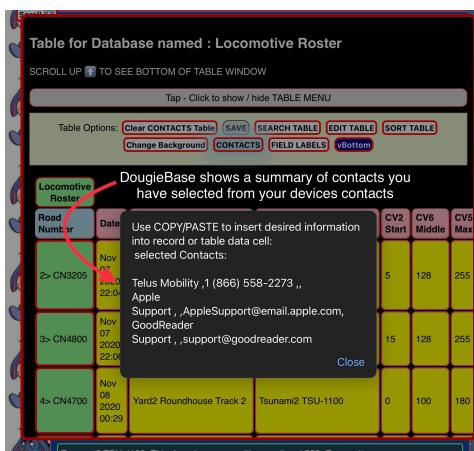
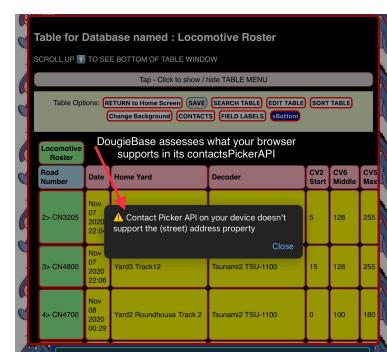
**Available properties = email,name,tel**

Close

DougieBase assesses what your browser supports in its contactsPickerAPI

**Contact Picker API on your device doesn't support the (street) address property**

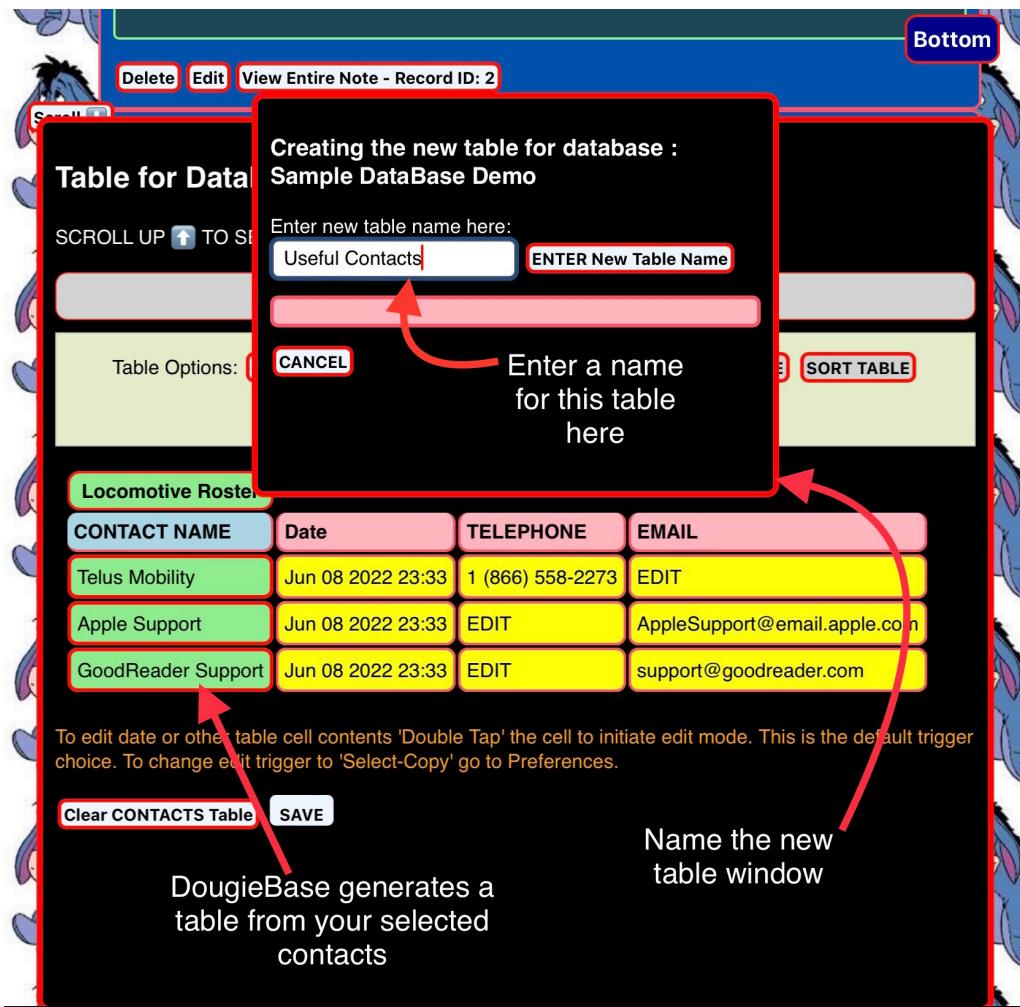
Close



You then see a summary of the contacts you have selected, and are asked if you want to create a table.

Tapping **OK** generates the table and brings up a NAME TABLE window.

After entering the table name you are asked to SAVE the table. When you return to the table information window the new table is listed with the other tables you have created for this database.

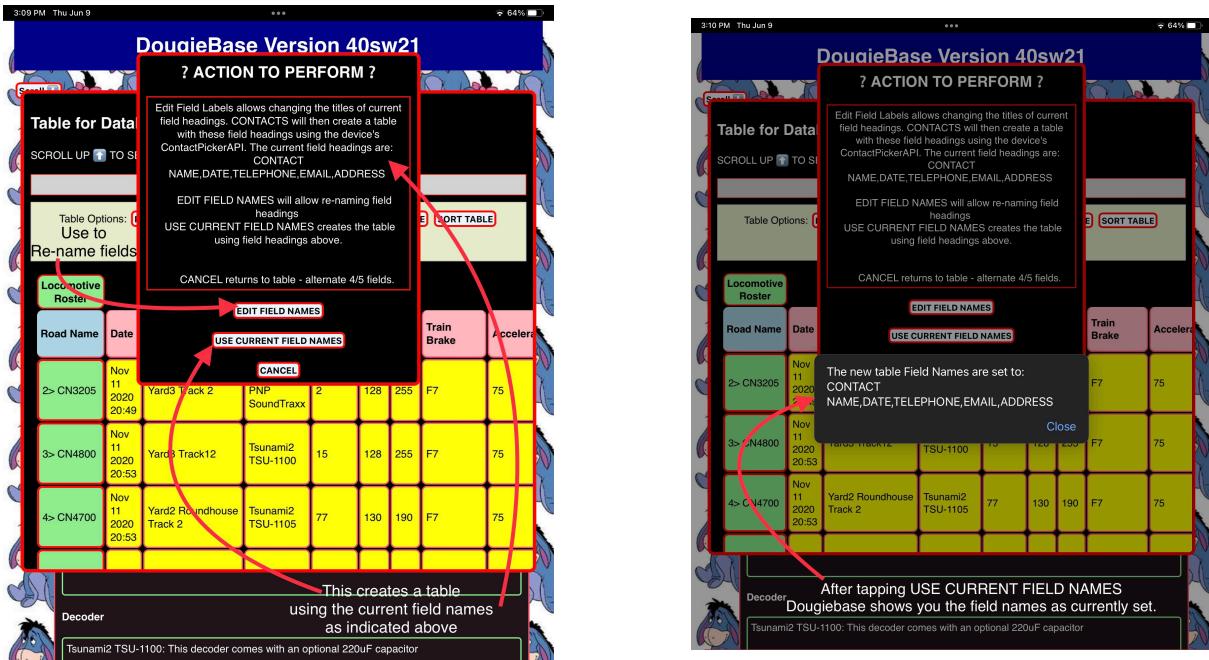


## FIELD LABELS

Tap the **FIELD LABELS** button in the main table menu (see page 10) to edit field names or to aid in choosing 4 or 5 fields. This option is used with CONTACTS tables and also is incorporated into making CUSTOMIZED tables. (More on this below). CONTACTS tables generate 4 FIXED Fields - Name, DATE, Telephone, Email, and 1 DYNAMIC field .. Address ... depending on your browser's capability to access the Address field from the ContactPicker API.

A first tap of **FIELD LABELS** Button will create a CONTACTS table using your device's ContactsPickerAPI but also adding an ADDRESS field. Tapping this button brings up the FIELD LABELS Action prompt. To use the field labels as named in the FIELD LABELS action request, tap the **USE CURRENT FIELD NAMES** button. DougieBase then shows you the field names as currently set.

If you want a simple CONTACTS table with just 4 fields ..name,date,telephone,email..but want to edit the field labels..first tap **CONTACTS** to set up the 4 fields, and use **CANCEL** at the table naming stage..then return to the Field Labels button , and use the EDIT CURRENT FIELDS option to get a simple CONTACTS table that you have been able to change the field names in.



Tapping the **CANCEL** button in the FIELD LABELS Screen will reset contacts Field names which will allow switching back and forth between 4 fields ending in EMAIL, OR 5 fields ending in ADDRESS. Depending on whether **CONTACTS** or **FIELD LABELS** is tapped first you get 4 or 5 fields. If you get 4 but you want 5 with ADDRESS just tap **CANCEL** in the Action Prompt window and/or in the ENTER NEW TABLE NAME window, and repeat the process following the prompts. (See page 19)

## EDIT FIELD NAMES

If you want to change the field names, tap the **EDIT FIELD NAMES** Button in the FIELD LABELS Action prompt window. This reveals the edit field names window (above).

After entering the desired field labels, tap **SUBMIT**. Then tap the **DONE** button to bring up the NAME TABLE window.

After naming the table you will be asked to **SAVE**, and your new table will be listed on the TABLE INFORMATION screen.

## More about editing new tables

The 3 types of Contacts tables allow editing  
1. of data in the table data cells (by double-tapping the table data cell or COPY-SELECT ... depending on your PREFERENCES Settings...see

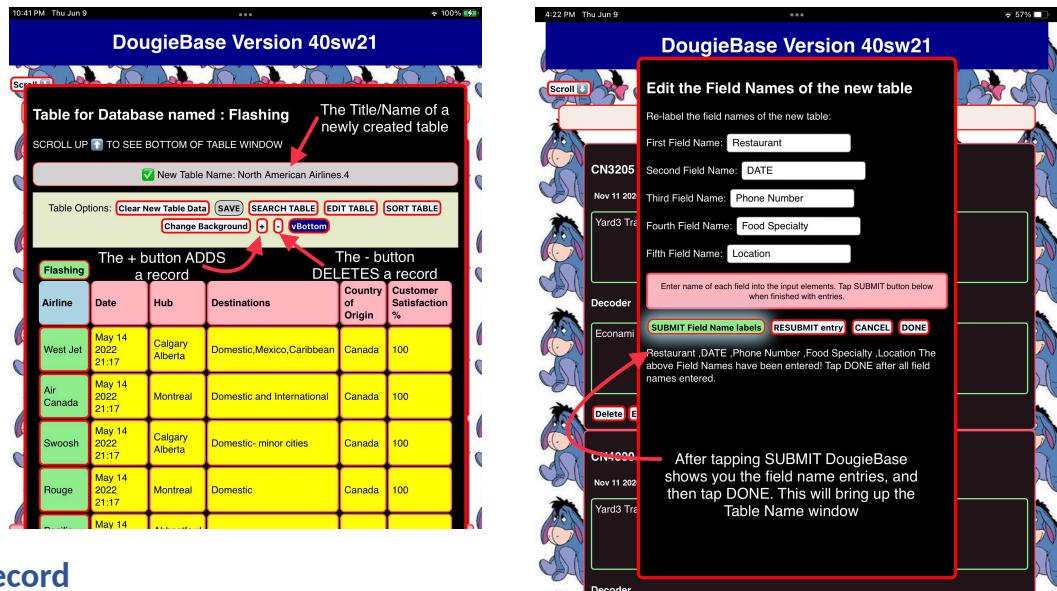
Chapter 1...,

2. adding and deleting (Contacts) records..(by tapping the + and - icons in the Table menu)
3. and adding and deleting fields, by tapping the **EDIT** button in the Table menu. See Chapter 2

Main DougieBase tables can only be edited using the EDIT Button on the table options menu bar. For more information see Chapter 2. New tables other than the main DougieBase table have a + and - icon for adding and deleting records.

## Adding and Deleting records from a new table

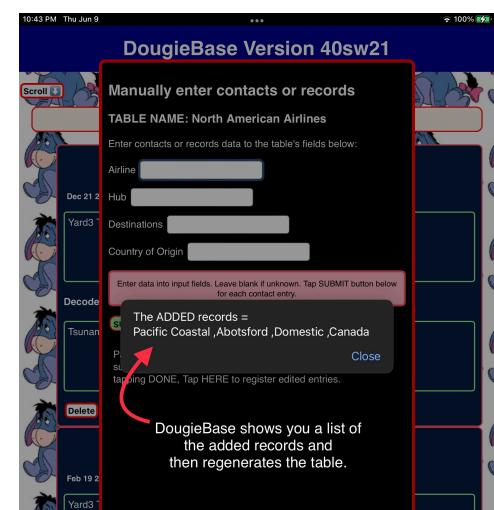
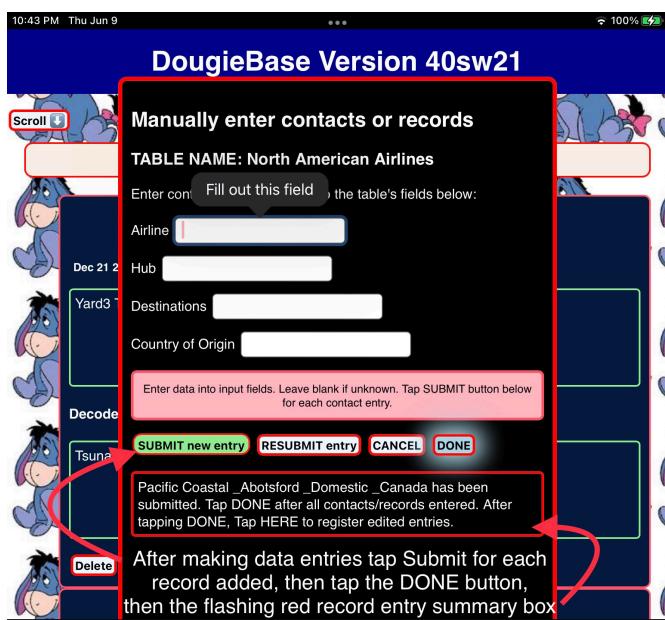
The + and - icons appear on the table menu of a new table. These are absent on the tables created by a SEARCH from a MAIN Database table or from the MAIN Dougiebase table itself.



### To ADD a record

Tap the + button. This brings up the data entry window.

After making entries tap **DONE**, then tap the flashing red box to finalize the adding of the record or records. More than one record can be added at a time. You are then shown a list of the added records and are asked to **SAVE** the table. Follow the flashing button prompts.



# DougieBase Version 40sw21

**Table for Data**

SCROLL UP ↑ TO SEE BOTTOM OF TABLE WINDOW

Table Options: **Clear CONTACTS Table** **SAVE** **SEARCH TABLE** **EDIT TABLE** **SORT TABLE** **Change Background** **+ Bottom**

**Locomotive Roster**

Restaurant	Date	Phone Number	Food Specialty	Location
Fireside Grill	Jun 09 2022 16:27	250-479-1222	firesidegrill@shaw.ca	<b>EDIT</b>
The Lake Restaurant	Jun 09 2022 16:27	19055560142	<b>EDIT</b>	<b>EDIT</b>
(pizza) Romeo's	Jun 09 2022 16:27	250 744 1177	<b>EDIT</b>	<b>EDIT</b>
Genoa Bay Café	Jun 09 2022 16:27	1-250-746-7621,1 (800) 572-6481	cafe@genoabaycafe.com	<b>EDIT</b>

Double Tap on the table's data cell to EDIT its contents.

**Creating the new table for database : Official Locomotive Roster**

Enter new table name here: **Good Restaurants** **ENTER New Table Name**

Last Action: A Contacts table with 5 fields

**CANCEL**

Enter a name for this table

**The new table with the edited field names**

## To DELETE a record:

Tap the - icon. You will be requested to DOUBLE-TAP on the record you wish to DELETE. You are given an opportunity to change your mind. Deleting a record is permanent unless you have previously backed up the database.

**Table for Database named : Flashing**

SCROLL UP ↑ TO SEE BOTTOM OF TABLE WINDOW

Table Options: **Clear New Table Data** **SAVE** **SEARCH TABLE** **EDIT TABLE** **SORT TABLE** **Change Background** **+ Bottom**

**Flashing**

Airline	Date	Customer Satisfaction %
West Jet	May 2022 21:17	100
Air Canada	May 14 2022 21:17	Montreal
Swoosh	May 14 2022 21:17	Domestic- minor cities

After tapping the - button, double tap on the record you wish to DELETE

Double-tap on the record you wish to delete!

**To DELETE a record tap the - button**

**DougieBase gives you an opportunity to change your mind prior to deleting!**

**Bottom**

Airline	Date	Hub	Destinations	Country of Origin	Customer Satisfaction %
Air Canada	May 14 2022 21:17	Montreal	Domestic and International	Canada	100
Rouge	May 14 2022 21:17	Montreal	Domestic	Canada	100
Pacific Coastal	May 14 2022 21:17	Abbotsford BC	Western cities	Canada	100
Pete's Airline	May 14 2022 21:17				100
Delta	Jun 09 2022 15:58	Atlanta	International	USA	100
United	Jun 09 2022 15:58				100

Delete record : Pacific Coastal , Jun 09 2022 22:43;Abbotsford ,Domestic ,Canada? :

CANCEL will Return to Table

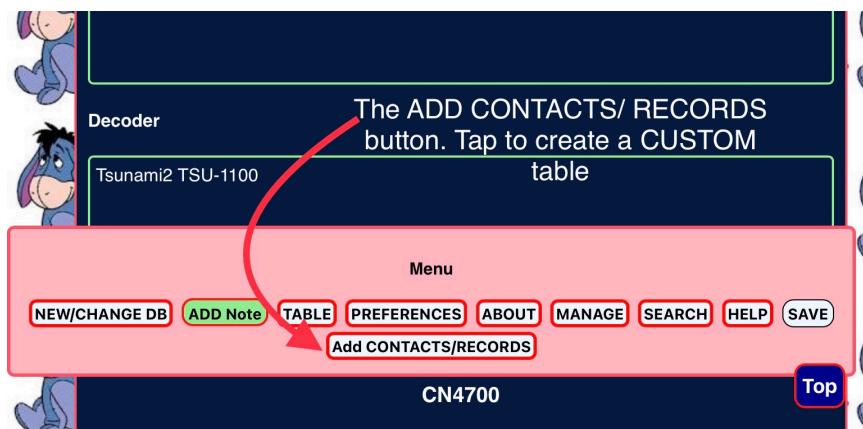
**Cancel** **OK**

## CREATING CUSTOM TABLES

As indicated above a custom table can be created by using a CONTACTS table as a template, and editing the field names, and editing the data cells individually. The EDIT button allows renaming of FIELD headings, and ADDING or DELETING of fields, facilitating the creation of CUSTOM tables for any purpose.

The best way to create CUSTOM tables in DougieBase is to use the **ADD CONTACTS/RECORDS** button in the Main menu, allowing labelling of the table field names on the fly, as you create the table and enter record data into the fields from a FORM input screen. Your device's Contacts via the browser's contactPickerAPI, are not available to you when using this option. There will be 4 or 5 fields available depending on how you have initialized the **CONTACTS** table and **CANCEL** buttons as indicated above. DougieBase will show you the current Field settings when you start the process. This can be changed using the **CANCEL** button..see note below.

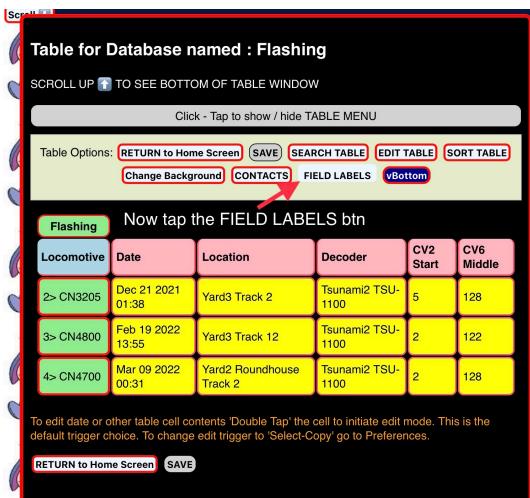
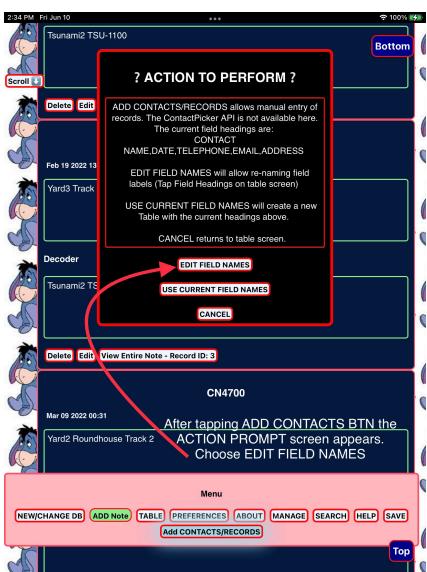
THE **ADD CONTACTS/RECORDS** menu button on the database MAIN MENU bar:



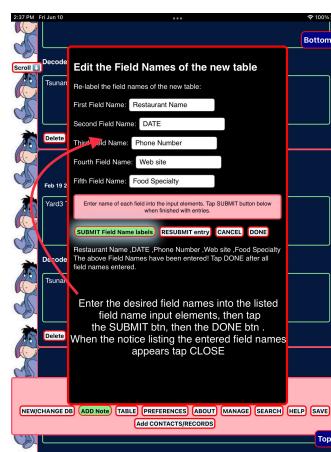
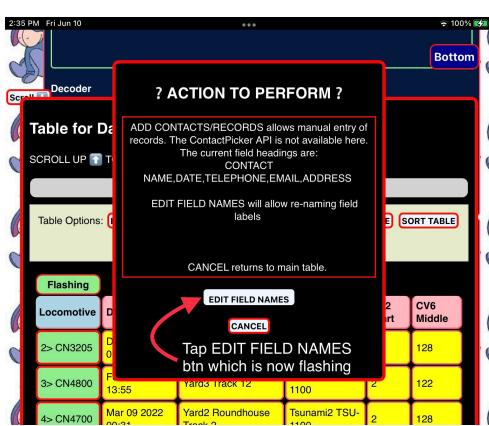
### The **ADD CONTACTS/ RECORDS** option

This button might be better titled Create a Custom table. Using this option allows using unique Field Names as you create the table, as well as 'manually' entering data into the table's data cells. Unlike the CONTACTS option from the MAIN DATABASE TABLE, there is no access to the browser's contactPickerAPI, and therefore no automatically selecting contacts from your device. This option gives you the number of fields currently available from prior use of the **CONTACTS** and **FIELD LABELS** options as discussed above. The number of fields available can be altered between 4 and 5 ...see discussion on the **CANCEL** button on page 19. After DougieBase creates your custom table you can then ADD, REMOVE, and EDIT field contents, as well as edit data content in the data cells just as in any other table. See more information on using the EDIT option from the MAIN table (or new table menu options) in Chapter 2.

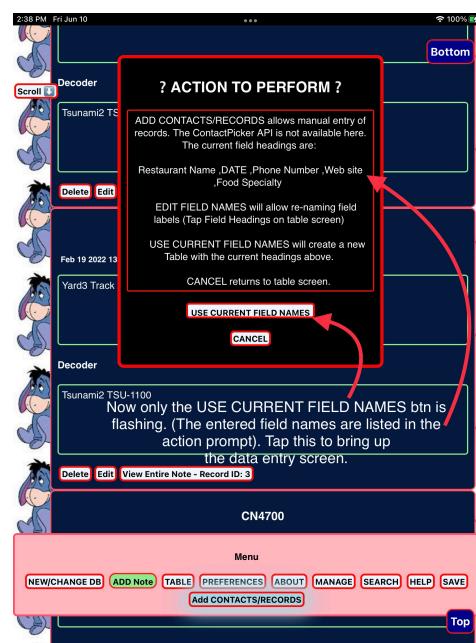
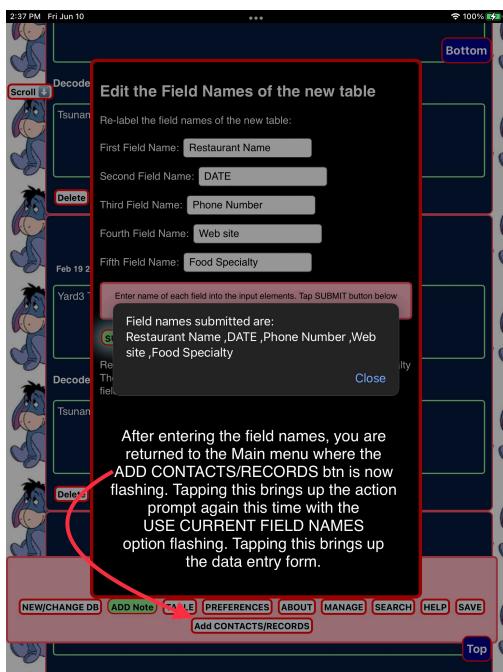
After tapping the **ADD CONTACTS/RECORDS** button:...tap **EDIT FIELD NAMES**. Now tap **FIELD LABELS** on the table options menu (now flashing).



Tap **EDIT FIELD NAMES** (now flashing) again.  
Enter the desired field names into the listed field name input elements.

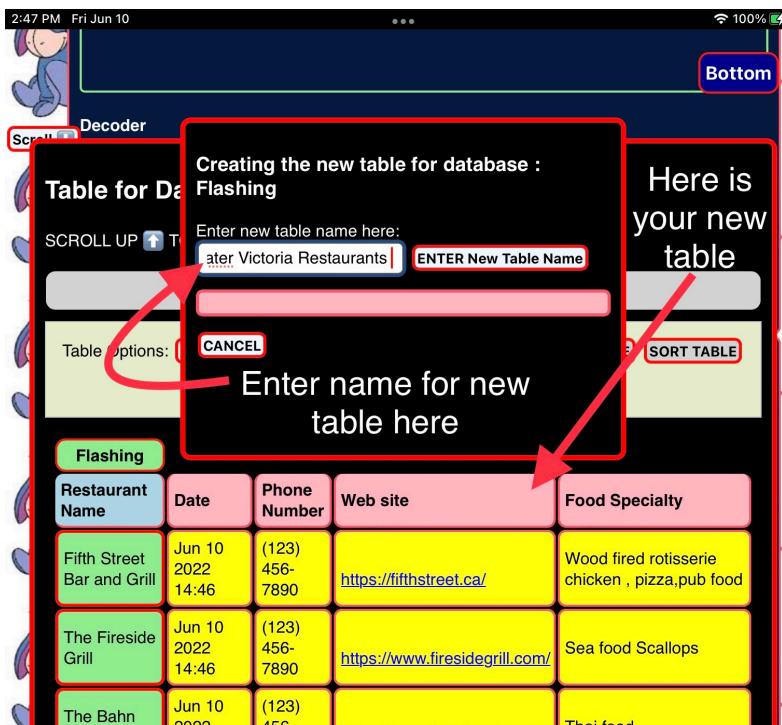
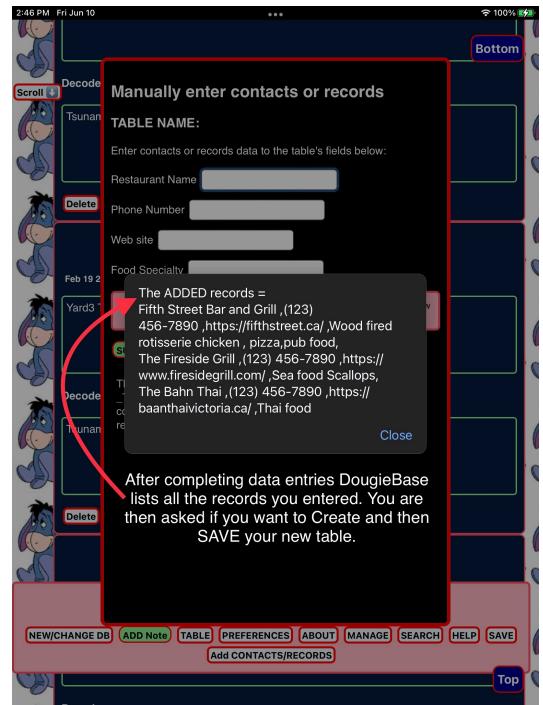
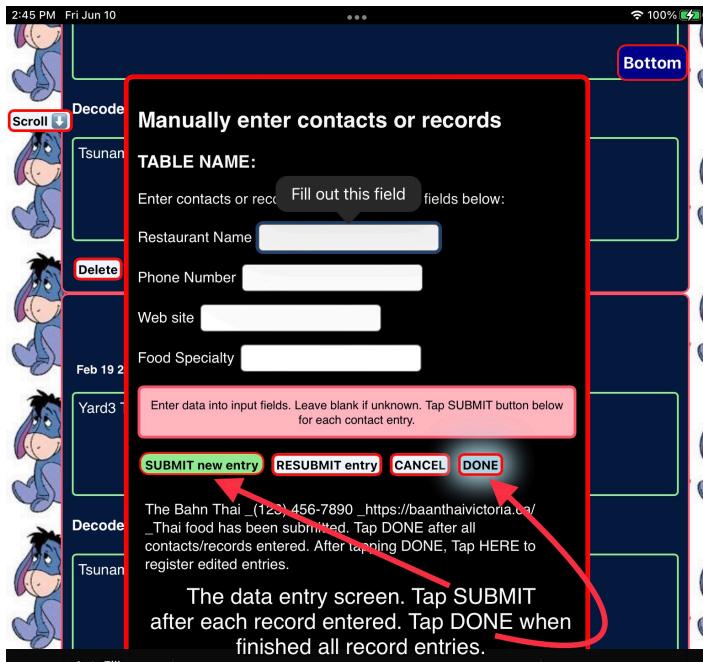


After entering the field names you are returned to the MAIN MENU bar where the **ADD CONTACTS/RECORDS** button is now flashing!



The Action to Perform Prompt again appears, now with **USE CURRENT FIELD NAMES** flashing, (now the only option).

Now the data entry screen appears...



After entering the record data DougieBase will ask you if you want to Create the Table, then a 'name the table window' appears. You are then asked to SAVE, and now the new customized table is listed on the Table Information screen.

## A NOTE ABOUT THE CONTACTS button, FIELD LABELS and the CANCEL buttons.

First tap of **CONTACTS** button creates a simple CONTACTS table using your device's ContactsAPI. If you do not have a browser that is enabled with a contactsPickerAPI, DougieBase creates a sample of a Contacts table that can be used as a template.

A first tap of **FIELD LABELS** button will create a CONTACTS table using your device's ContactsAPI but also adding an ADDRESS field, and capability of editing field names.

If you want a simple CONTACTS table with just 4 fields ..name,date,telephone,email..but want to edit the field labels..first tap **CONTACTS** to set up the 4 fields, and use **CANCEL** at the table naming stage..then return to the **FIELD LABELS** button, and use the **EDIT CURRENT FIELDS** option to get a simple CONTACTS table that you have been able to change the field names in.

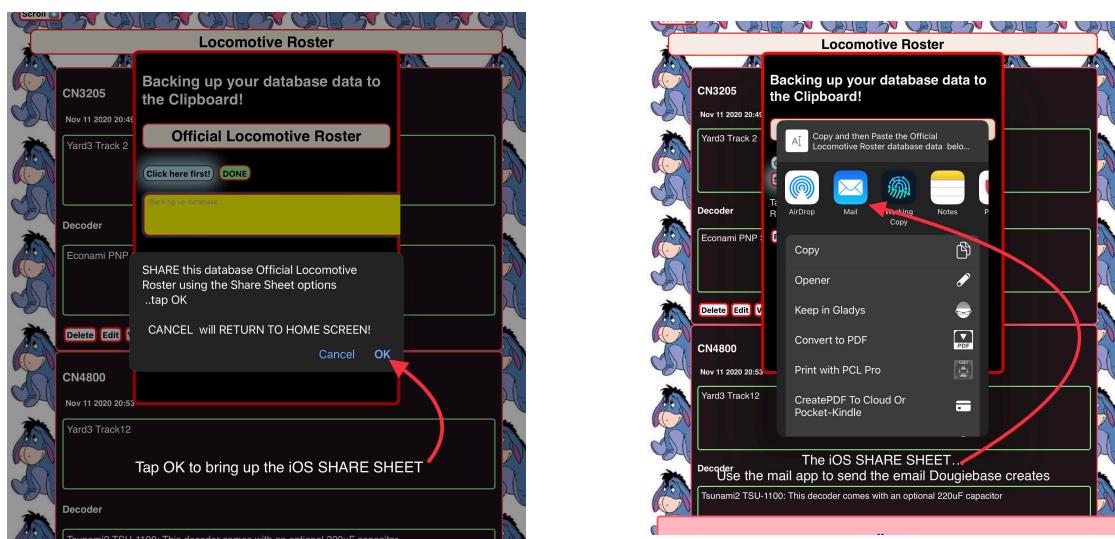
The **CANCEL** button: This will reset contacts Field names which will allow switching back and forth between 4 fields ending in EMAIL, OR 5 fields ending in ADDRESS. Depending on whether **CONTACTS** or **FIELD LABELS** is tapped first you get 4 or 5 fields. If you get 4 but you want 5 with ADDRESS just tap **CANCEL** in the Action Prompt window and/or in the ENTER NEW TABLE NAME window, and repeat the process following the prompts.

Any table created using the **ADD CONTACTS/RECORDS** button from the Main Menu will have a Fifth field initially labelled ADDRESS unless you edit the field names as per options provided.

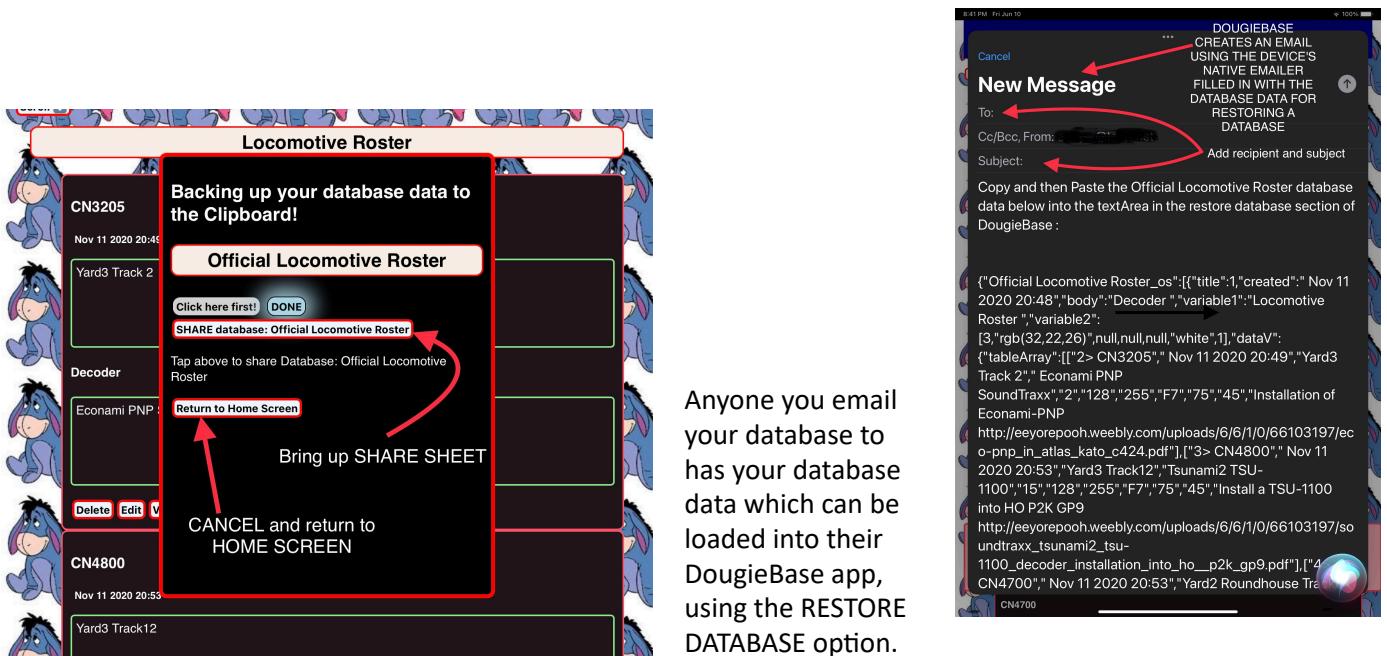
## EXPORT A DATABASE BY EMAIL USING THE iOS SHARE SHEET

DougieBase has the capability of exporting a database using the iOS SHARE sheet. This is done as an option in the BACKUP a database process. (See BACKING UP A DATABASE in Chapter 2).

Tap the **BACKUP-EXPORT** button. After the backup to clipboard completes you have the option to EXPORT via email using the devices iOS SHARE SHEET.



DougieBase uses your device's native emailer to create an email containing the database data needed to restore a database in the recipient's DougieBase app.



Anyone you email your database to has your database data which can be loaded into their DougieBase app, using the RESTORE DATABASE option.

#### EMAIL ADDRESSES CAN NOW BE MADE ACTIVE.

If the 4th FIXED Field in a table is labelled 'EMAIL', (for example in a CONTACTS table) then the email addresses in this column will become 'active' if you DOUBLE-TAP on the EMAIL field heading.