

Creating a one-to-many relationship with integrity enforcement in Caspio platform

How-to user guide

Prepared for recruitment purposes

Karolina Dziewierz

2 May 2021

Table of contents

2. Prerequistes 3. Step-by-step procedure 3.1. Navigation 3.2. Creation of a parent table 3.3. Creation of a child table 3.4. Creation of a one-to-many relatonship	1.	Overview	3
3.1. Navigation	2.	Prerequistes	3
3.2. Creation of a parent table	3.	Step-by-step procedure	3
3.3. Creation of a child table		3.1. Navigation	3
3.4. Creation of a one-to-many relatonship		3.2. Creation of a parent table	4
		3.3. Creation of a child table	6
4. Defenential integrity		3.4. Creation of a one-to-many relatonship	7
4. Referential integrity		4. Referential integrity	9



1. Overview

A one-to-many relationship occurs when one <u>record</u> in a <u>table (parent table)</u> is associated with one or more records in another table (child table). For example, the relationship between a client and sales orders in which each client can have many sales orders but each order only belongs to one client. In Caspio app when creating a relationship between two tables, if only one of the related fields is unique, a one-to-many relationship is set automatically.

2. Prerequistes

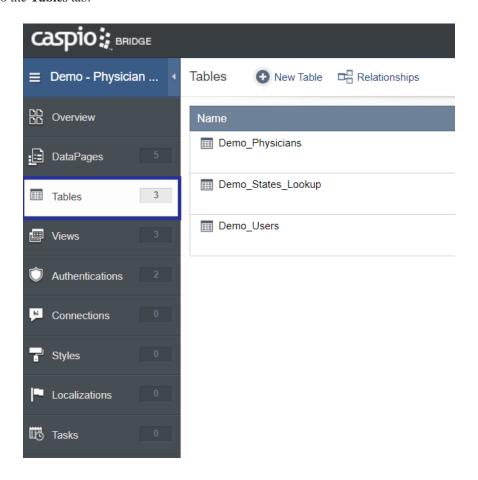
To create a one-to-many relationship in Caspio app, you need to have parent and child tables set up.

This document presents a step-by-step procedure on how to set up a parent table, child table and establish a one-to-many relationship. If you already have parent and child tables, please proceed directly to point <u>3.4. Creation</u> of a one-to-many relatonship.

3. Step-by-step procedure

3.1. Navigation

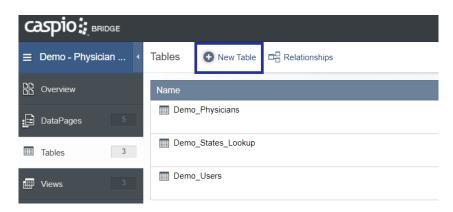
- 1. Login into your Caspio account.
- 2. Go to the **Tables** tab.



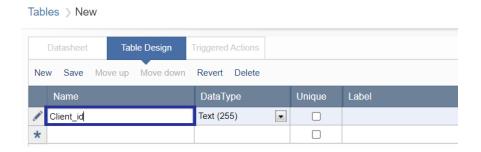


3.2. Creation of a parent table

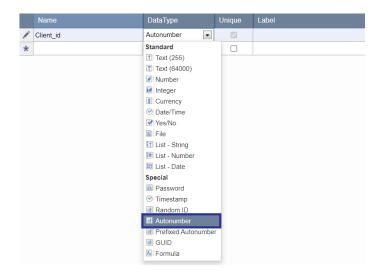
1. Click the [New table] button to create a parent table.



2. Insert the name of the field in the **Name** field, e.g. Client_id.

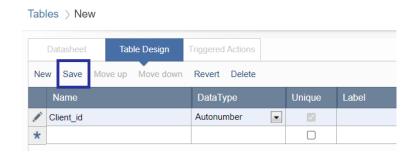


3. Set the DataType as either: **Autonumber**, **Prefixed autonumber**, **Random ID**, **GUID**. The system automatically marks this field as unique, which means that every single client in your database will have a unique identifier (so-called primary key).





4. Click the [Save] button.

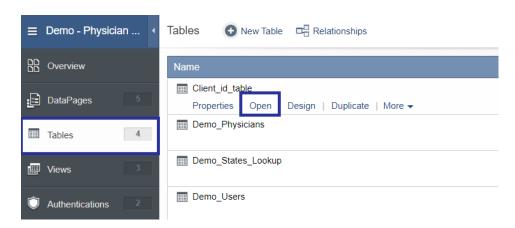


- 5. Insert a table name, e.g. Client_id_table.
- 6. Click the [Finish] button.



Adding data entries

7. Click the [Open] button.

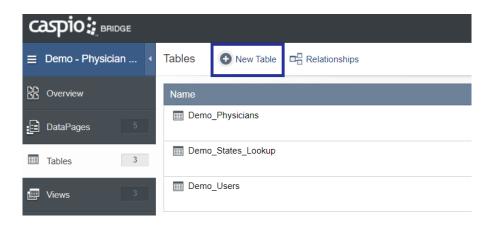


8. Fill in the **Name** fields. The system adds unique client_ids automatically.

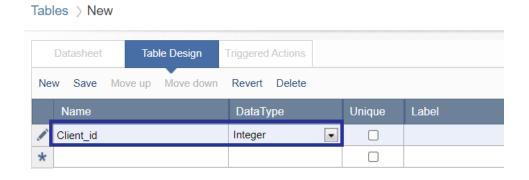


3.3. Creation of a child table

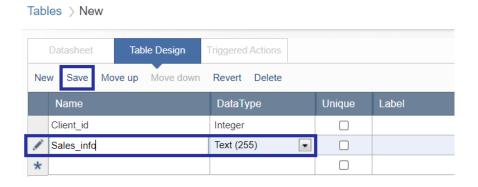
9. Click the [New table] button to create a child table.



- 10. Create a foreign key that links back to the parent table (here Client_id).
- 11. Set the DataType. For **Autonumber** it needs to be an **Integer**, for **Random ID**, **GUID** or **Prefixed autonumber** it needs to be **Text** (255).



- 12. List the other fields.
- 13. Click the [Save] button

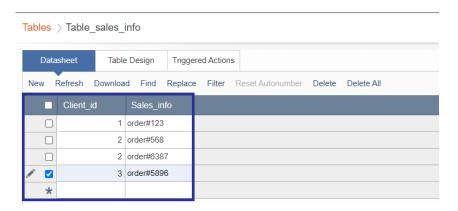


- 14. Insert the **Table_name**, e.g. Sales_info.
- 15. Click the [Finish] button.



Adding data entries

- 16. Click the [Open] button.
- 17. Add the data in the parent column (here Client_ids) which pertains to a child colum (here Sales_info). In other words we can say that Sales_info pertains to a Client with a particular id.



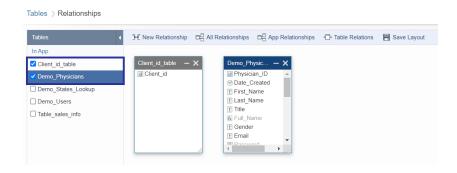
18. Go back to the **Tables** menu.

3.4. Creation of a one-to-many relatonship

19. Click the [Relatonships] button.



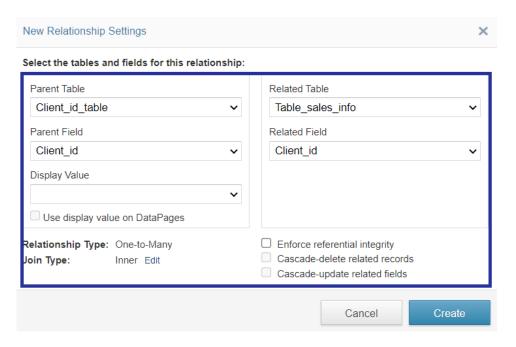
20. Select the tables from the left **Tables** menu.





21. Click the parent table (here a Client_id), drag it over and link to the integer of the related table.

New Relatonship Settings popup with configuration details appears:



It includes the following fields:

Parent Table – contains parent records,

Parent Field – displays the name of a parent table,

Related Table – contains child records,

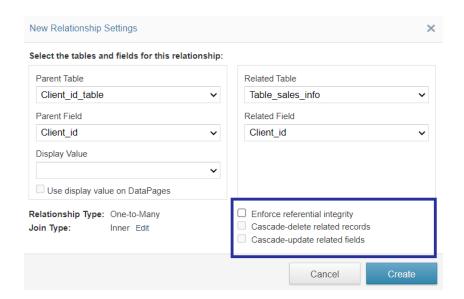
Related Field – the field that links both tables,

Display Value – it allows you to choose a field from the parent table and display it in the associated field of the child table,

Relationship Type: **One-to-Many** – type of a relatonship between the tables. Here t means that there are multiple orders related to one client.



4. Referential integrity



Referential integrity allows you to maintain integrity between the parent table and related child records. You can check the following options:

Enforce Referential integrity – when clicked, it means that you are not allowed to delete a record from a parent table as you have related child tables,

Cascade-delete related records – when clicked, it means that if you delete a parent table, related child records are deleted as well to maintain referential integrity,

Cascade-update related tables – when clicked, it means that if you update a parent table, related child records are updated accordingly to maintain referential integrity.

