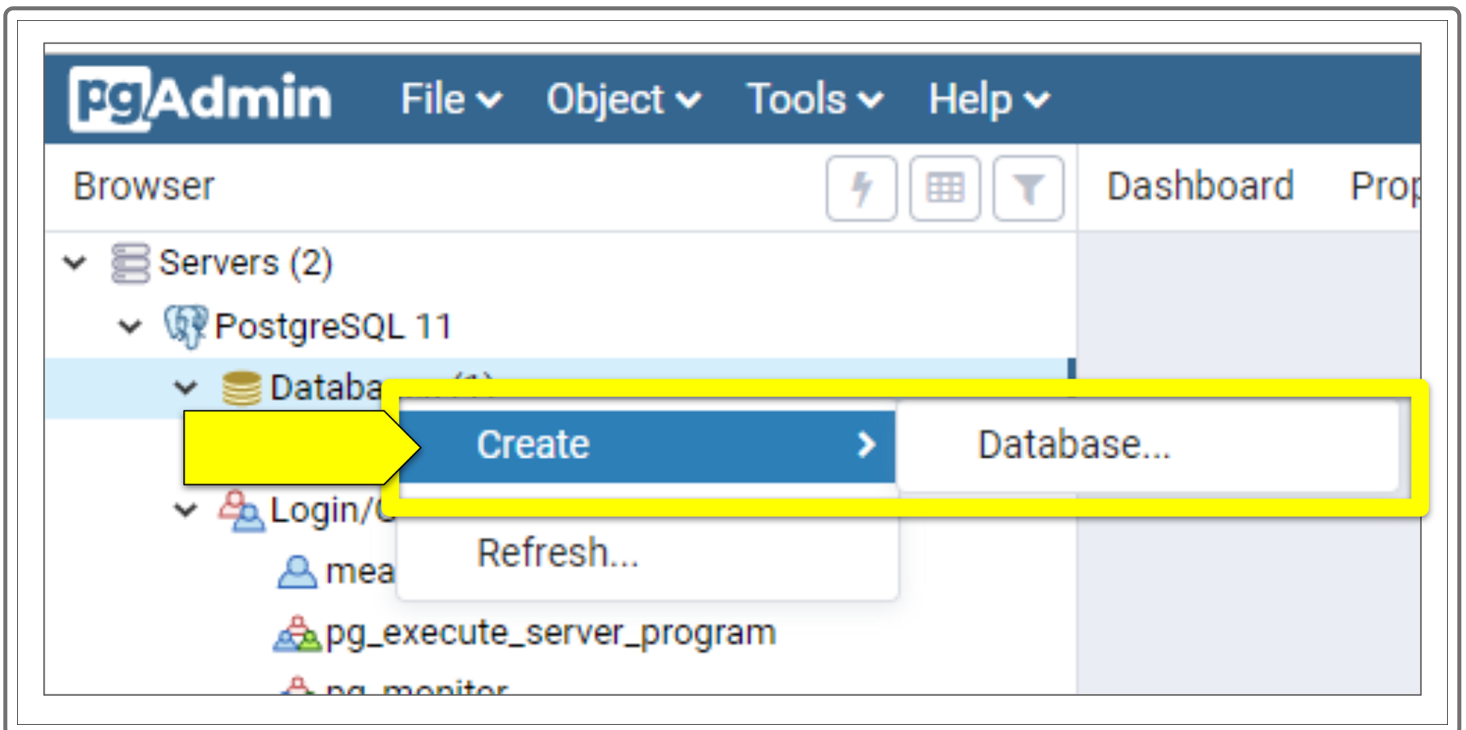


8.5.3

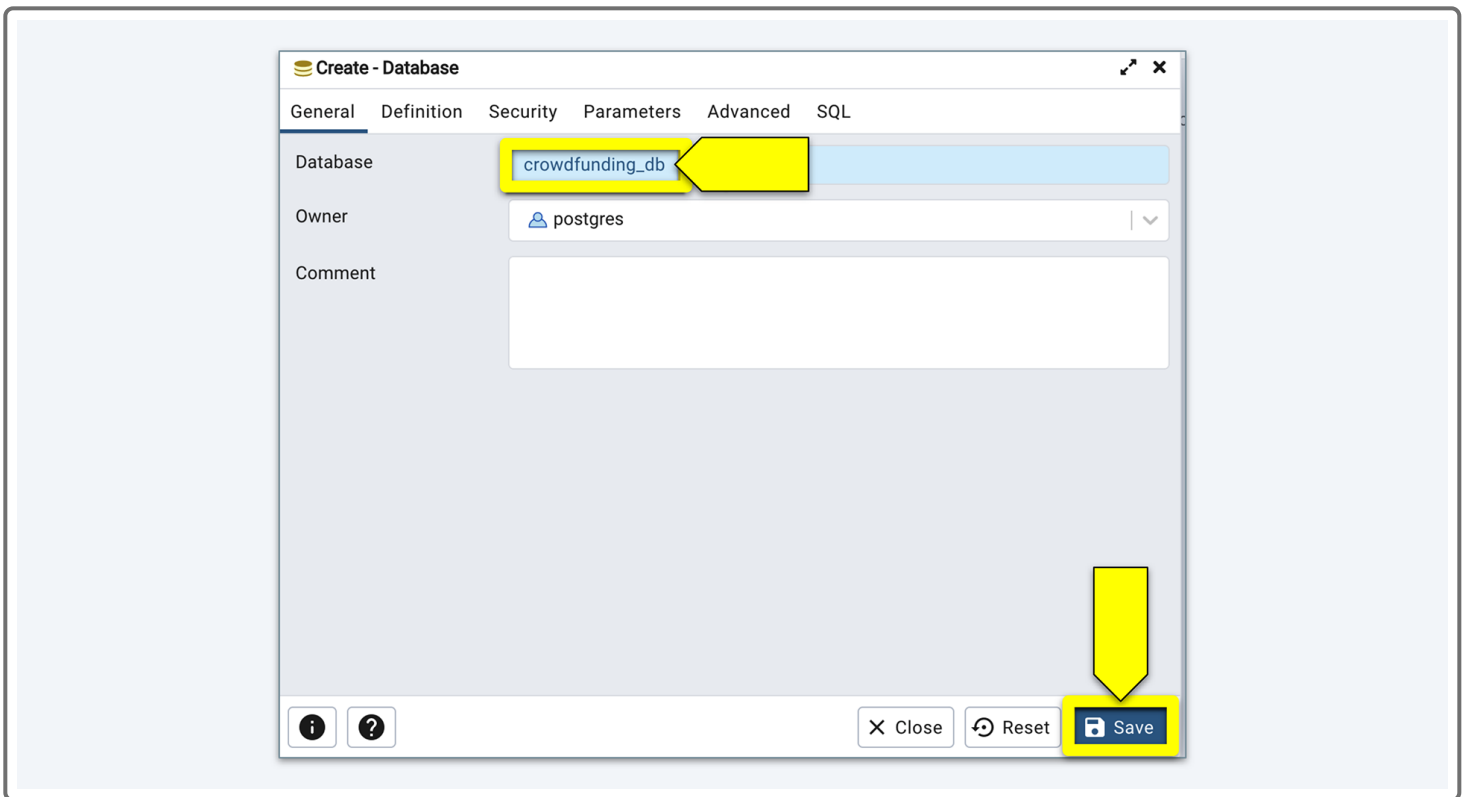
Create the Crowdfunding Database and Tables

Now that you and Britta have created the relationship diagram and the database schema, you can create a new database in pgAdmin and create the tables by using the schema.

Open pgAdmin, start your PostgreSQL server, and then in the Browser pane (on the left side), expand your local servers so that the Databases section displays. Right-click Databases, select Create, and then select Database.



Enter "crowdfunding_db" as the name of the database, and then click Save.

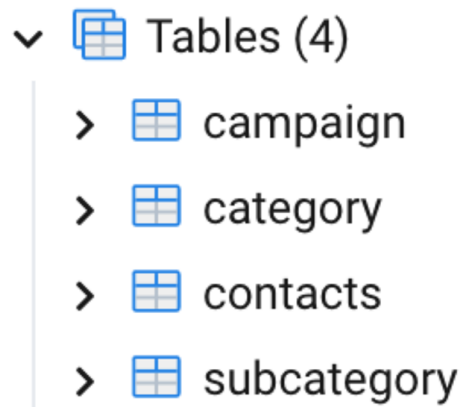


A new database, named `crowdfunding_db`, is created on the PostgreSQL server.

Next, connect to the `crowdfunding_db` database, and then open a new query tool. Copy your exported Quick DBD PostgreSQL code, `crowdfunding_db_schema.sql`. If you have trouble exporting the code, use the following link to download the table schema:

[crowdfunding_db table schema](https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/v2/module_8/crowdfunding_db_table_schema.sql) → (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/v2/module_8/crowdfunding_db_table_schema.sql)

After copying the table schema, paste it in the query editor, and then run the query. Refresh your schema in the `crowdfunding_db` database. You should have four tables, as the following image shows:

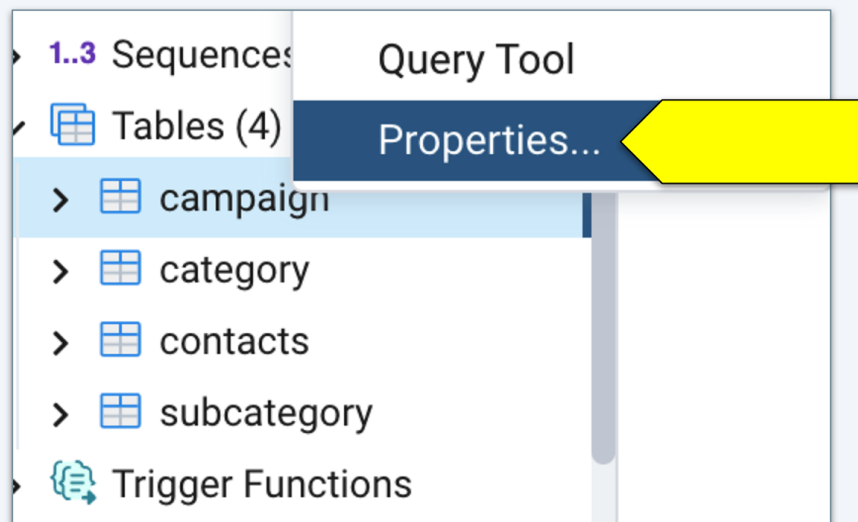


As the preceding image shows, the following tables should be listed under "Tables (4)":





























- campaign
- category
- contacts
- subcategory

Let's check the properties of each table. First, we'll check the **campaign** table.

To do so, right-click the campaign table, and then select Properties so that you can inspect the schema of the table.

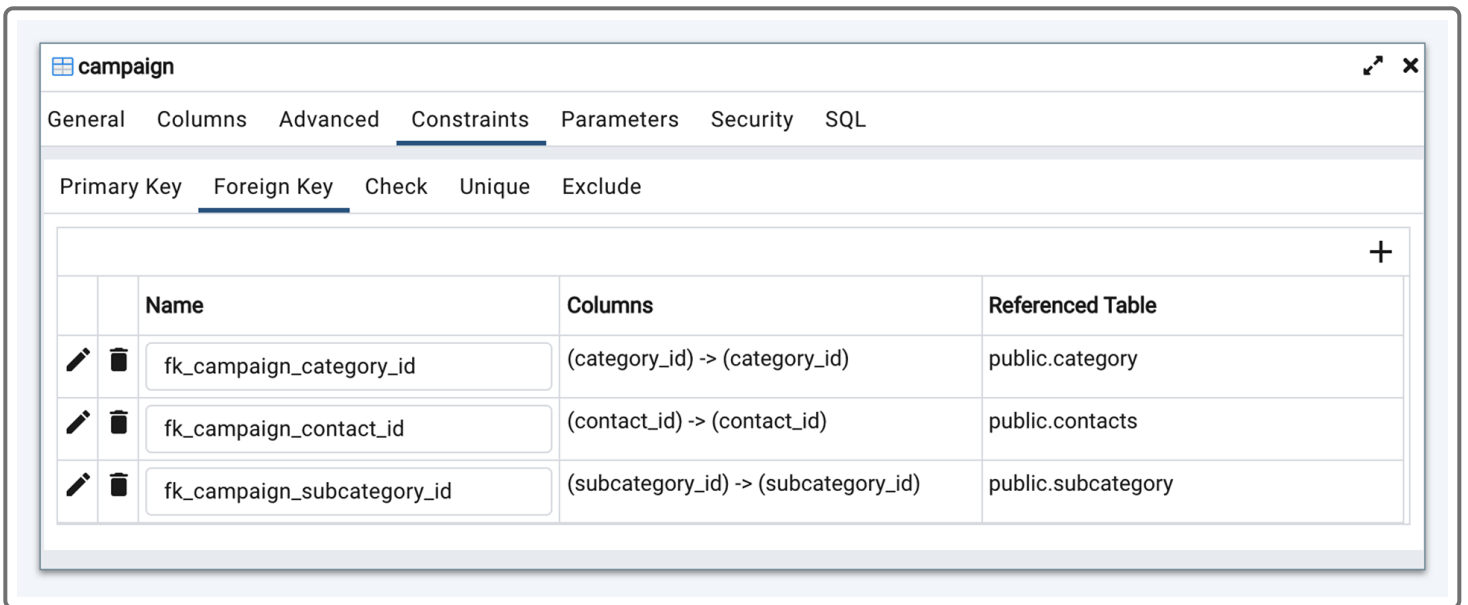








Select the Columns tab to view the campaign table schema.

General Columns Advanced Constraints Parameters Security SQL						
Columns						
	Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?
 	cf_id	integer v			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	contact_id	integer v			<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	company_name	character varying v	100		<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	description	text v			<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	goal	numeric v	10	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	pledged	numeric v	10	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	outcome	character varying v	50		<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	backers_count	integer v			<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	country	character varying v	10		<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	currency	character varying v	10		<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	launch_date	date v			<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	end_date	date v			<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	category_id	character varying v	10		<input checked="" type="checkbox"/>	<input type="checkbox"/>
 	subcategory_id	character varying v	10		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Confirm that the table schema you created by using the Quick DBD relationship diagram matches what pgAdmin displays. In pgAdmin, notice that the "cf_id" column is the primary key and that all the columns are "Not NULL."

Next, select the Constraints tab, which confirms that the "cf_id" column is the primary key. On the Constraints tab, select the Foreign Key subtab. Notice that the assignment of the foreign keys matches how you assigned them in the Quick DBD relationship diagram.



campaign			
General Columns Advanced Constraints Parameters Security SQL			
Primary Key Foreign Key Check Unique Exclude			
	Name	Columns	Referenced Table
 	fk_campaign_category_id	(category_id) -> (category_id)	public.category
 	fk_campaign_contact_id	(contact_id) -> (contact_id)	public.contacts
 	fk_campaign_subcategory_id	(subcategory_id) -> (subcategory_id)	public.subcategory

Practice confirming the correctness of the schemas for the remaining tables yourself in the following Skill Drill:

SKILL DRILL

Confirm that the schemas for the **contacts**, **category**, and **subcategory** tables are correct.

Now that you and Britta have created the **crowdfunding_db** database and tables, it's time to load the data into the tables. We'll do that next.

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