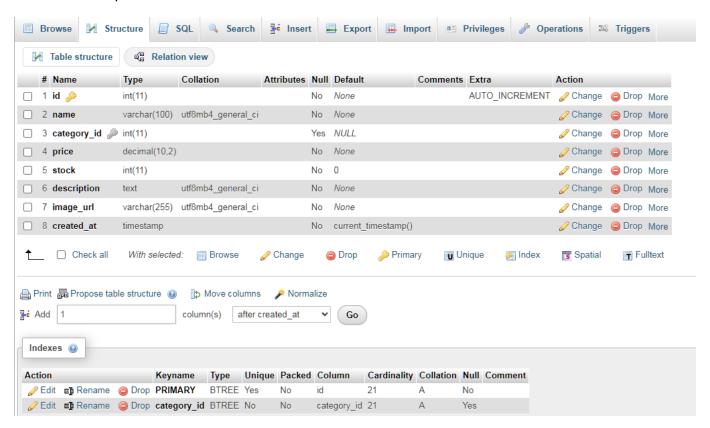
Name: Amer Odobasic Student #: 110102521

I have attached the SQL schema for this project in the 'other' folder. The file is called 'pcbuilder.sql'.

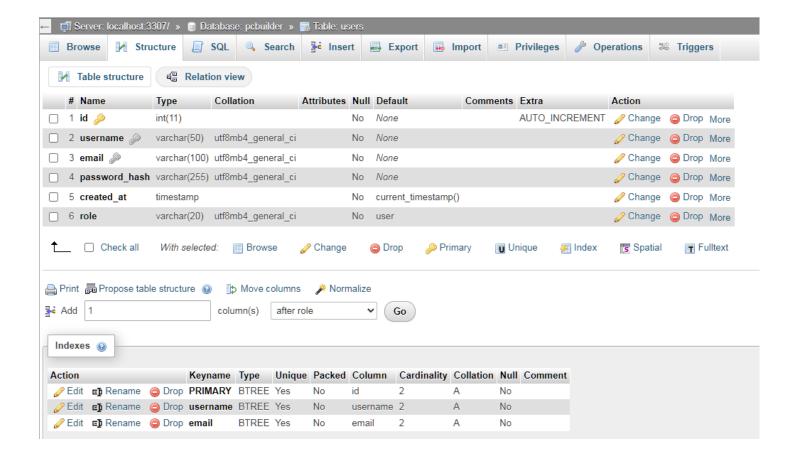
Comments are added throughout the code explaining certain insertions/deletions/updates in the database

For the SQL Structure;

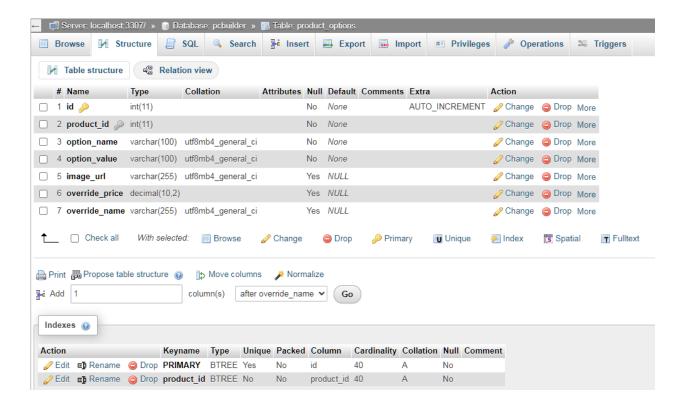
First table are 'products'



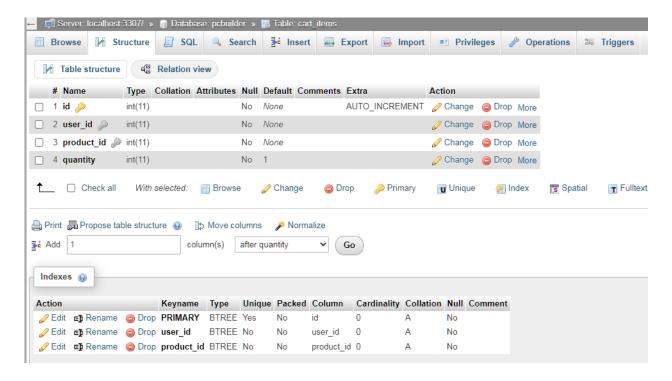
The point of this table is to hold product listings for the store. The 'id' keeps a unique product id, which is why it is a primary key. 'name' is the product name, 'price' is the price for the product, description of the product, 'stock' for inventory count which will be changed if the user buys it, 'image_url' stores the path to the image, and category_id is a category reference, meaning it will be stored as a foreign key



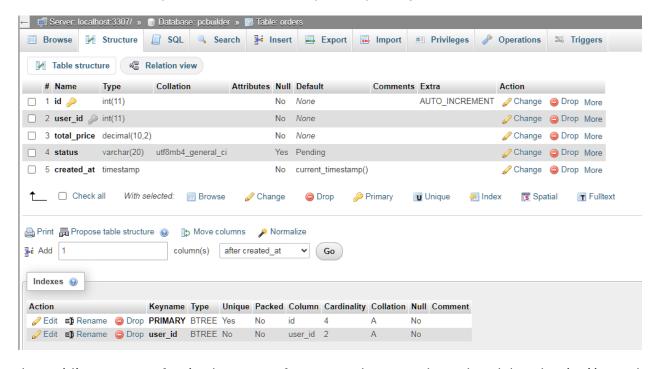
The point of the users table is that it stores registered user accounts. 'id' stores a unique user id, meaning it is still a primary key. 'username' stores the users login name and store the users email address; both are unique. We use a hashed password for security. 'role' is to know who is a user and admin. 'created_at' is used as a time stamp for the account creation time



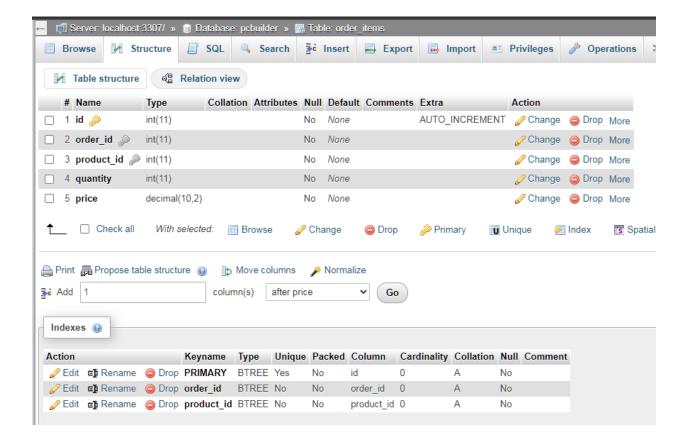
This table is to define variant options (like Color, Size) for each product. 'id' and 'product_id' are both unique. The 'id' is the unique option id's and the other is a unique reference to the 'products' table. The option name (Color, RAM Size) and value (Black, 1TB) is stored for each product in the table. The override price and name are added in case of an upgrade to a product.



This table is used to store items added to carts (either stored per session or user). 'session_id' keeps the session/user identifier and 'product_id' is a foreign key constraint that holds the linked product. The table keeps the quantity selected.



'user_id' serves as a foreign key as a reference to the user who ordered. 'total_price' is total amount of the order and 'status' keeps hold of the status (e.g., Pending, Shipped, Cancelled). 'created_at' is used to see when the order was placed



This 'order_items' table lists each item that was part of an order. 'order_id and 'product_id' are both foreign keys that is a reference to orders and the product ordered, respectively.



'support_messages' stores user-submitted contact/support messages. 'id' is the unique message ID. 'user_id' is NULL for guest, else user ID. 'response' is for the admin reply and 'created_at' for the time of the message submission.