

Database Tables and Their Purposes

- ★ **userbase:**
 - This table holds the essential login information for every user: their encrypted password, email address, and phone number. This is where the system checks the user credentials when logging in.
 - To check if a user exists, we would first go through the userbase to check if their email address exists (and userID). If not, they should create an account. Once the user has been validated, the application then looks in the other tables that map out user roles
- ★ **user:**
 - This table stores each person's basic profile details—username, first name, and last name—linked back to their entry in userbase
- ★ **adminuser:**
 - This table contains special accounts with administrative privileges. Each admin links to a userbase entry and has an internal admin ID and display name
- ★ **adminretailer:**
 - This table keeps track of which administrators are responsible for which retailers, defining who can manage each retailer's data/information
- ★ **retailuser:**
 - This table lists users who represent a retailer (rather than shoppers), recording their user ID, associated retailer, and unique
- ★ **retailer:**
 - This table contains the list of all retailers (e.g. Woolworths, PicknPay, etc). Other tables refer to this to identify companies.
- ★ **brands:**
 - A catalog of product brands (e.g. Koo, housebrand, etc) available in the database (and in the real world).
- ★ **category:**
 - Lists product categories (e.g. "Electronics," "Home & Garden") used to group and filter items.
- ★ **products:**
 - The core product directory: each item's name, description, associated brand, default category, and specifications.
- ★ **productcategory:**
 - A helper table that ties products to multiple categories, allowing items to appear under several category labels.
- ★ **comparison:**
 - This table records the prices each retailer offers for every product, enabling the price-comparison feature.
- ★ **request:**
 - update, or remove products—holding all details until admin approval. This table shows (and holds) the requests submitted by the retailers (the CRUD operations)
- ★ **review:**
 - Stores customer feedback: reviewer, product reviewed, star rating, and comments.
- ★ **vw_productcatalog:**

- A view that acts as a one-stop table that already joins products, their brands, categories, and each retailer's price—so you can pull up your entire catalog with a single query
- ★ vw_requestdetails:
 - A view that shows each pending request with retailer code and brand/category names for admin review.
- ★ vw_userproductreviews:
 - A view displaying all product reviews alongside reviewer email and product name for easy feedback analysis.