

Shop Management System

You have been assigned to develop a basic shop management system using MySQL and Python. This system should have two tables.

Tables Structure:

Products table with the following columns:

- product_id (Primary Key, INT, auto-increment)
- product_name (VARCHAR)
- category_id (INT, a foreign key to Categories table)
- price (INT)
- quantity (INT)

Categories table with the following columns:

- category_id (Primary Key, INT, auto-increment)
- category_name (VARCHAR)

Functions:

Add New Entries:

- add_product(product_id, product_name, category_id, price, quantity) to add a new product.
- add_category(category_id, category_name) to add a new category.

Remove Entries:

- remove_product(product_id) to remove a product.
- remove_category(category_id) to remove a category.

Edit Entries:

- edit_product(product_id, product_name, category_id, price, quantity) to edit an existing product
- edit_category(category_id, category_name) to edit an existing category.

Search Entries:

- search_products(name_or_category) to find products by name or category.
- search_categories(category_name) to find categories by name.

Display Entries:

- display_products() to display all products.
- display_categories() to display all categories.