**18CSC303 DATABASE DESIGN**

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**Normalization**

**Master Tables:**

These tables (master\_books, master\_movies, master\_products, master\_courses, master\_restaurants) are already representing individual entities and their attributes. They are in a normalized form.

transactions table with a type column to distinguish between different types of transactions (books, movies, products, courses, restaurants, miscellaneous). This would help reduce redundancy.

**Original Tables:**

transactions\_books (transaction\_id, user\_id, book\_id, transaction\_date, purchase\_price)

transactions\_movies (transaction\_id, user\_id, movie\_id, transaction\_date, purchase\_price)

transactions\_products (transaction\_id, user\_id, product\_id, transaction\_date, purchase\_price)

transactions\_courses (transaction\_id, user\_id, course\_id, transaction\_date, purchase\_price)

transactions\_restaurants (transaction\_id, user\_id, restaurant\_id, transaction\_date, total\_bill)

transactions\_miscellaneous (transaction\_id, user\_id, description, transaction\_date, amount)

**Normalized Tables:**

transactions (transaction\_id, user\_id, transaction\_type, transaction\_date)

transactions\_items (item\_id, transaction\_id, item\_type\_id, item\_id, purchase\_price)

books (book\_id, book\_title, author)

movies (movie\_id, movie\_title, director)

products (product\_id, product\_name, brand)

courses (course\_id, course\_name, instructor)

restaurants (restaurant\_id, restaurant\_name, cuisine)

miscellaneous (misc\_id, description)