**18CSC303 DATABASE DESIGN**

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**DESCRIPTION: MyStore-Ultimate Application and shopping store**

The MyStore – Welcome to MyStore, your one-stop destination for all your shopping needs! Discover a world of books, movies, products, courses, restaurants, and more, all in one convenient app. Whether you're a bookworm, a movie enthusiast, a tech geek, a foodie, or someone looking to enhance your skills, MyStore has something for everyone.

|  |  |
| --- | --- |
| OPERATIONS | ADDITIONAL INFORMATION |
| ADD | MODIFY |
| DELETE | MODIFY |
| SEARCH | SELECT |
| DISPLAY | SELECT |

1. MODIFICATION: Modify user data as the data

|  |  |
| --- | --- |
| operations | Additional info |
| add | Insert into table name |
| delete | Delete from table name |
| search | Select from table name |
| display | Select \* from table name |

Form names and description:

|  |  |  |  |
| --- | --- | --- | --- |
| name | type | Table related information | operations |
| category | Master form | User category | Delete, search, display, add |
| user | transaction | User table |  |

**REPORT:**

**Features:**

MyStore is designed to cater to various interests and needs, making it a versatile application:

**Wide Variety of Products:** The app hosts an extensive collection of books, movies, products, courses, and restaurants, ensuring there's something for every user.

**Entertainment and Learning:** Users can indulge in their favorite books and movies, as well as educational applications.

**Seamless Shopping Experience:** MyStore provides an easy and secure checkout process for purchasing products, ensuring a hassle-free shopping experience.

**Personalized Recommendations:** The app offers personalized recommendations based on user preferences, helping users discover new content and products.

**Transaction Tracking:** Users can track their transactions, making it convenient to manage and review past purchases.

**Social Engagement:** The app encourages community engagement by connecting users through social media channels, sharing updates, and special offers.

**User Experience:**

**The app prioritizes user experience by offering:**

**User-Friendly Interface:** A simple and intuitive interface that allows users to navigate effortlessly.

**Personalization:** Customized content recommendations based on user behavior and preferences.

**Easy Checkout:** A streamlined checkout process with secure payment options.

**Transaction History:** Access to a detailed history of past transactions for easy reference.

**Quick Search:** Efficient search functionality to find specific products, courses, or restaurants.

**Conclusion:**

The MyStore - Ultimate Shopping Hub app offers a unique and holistic experience, combining shopping, entertainment, and learning. Its user-friendly design, diverse offerings, and potential for growth position it as a valuable platform for users seeking convenience, engagement, and personalization.

**Table: users**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| user\_id | INT | PRIMARY KEY |
| username | VARCHAR(50) | NOT NULL |
| email | VARCHAR(100) | UNIQUE |
| password | VARCHAR(100) | NOT NULL |
| registration\_date | DATE | CHECK (registration\_date <= CURRENT\_DATE) |
| last\_login | TIMESTAMP |  |

**Table: master\_books**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| book\_id | INT | PRIMARY KEY |
| book\_title | VARCHAR(100) | NOT NULL |
| author | VARCHAR(100) |  |
| publication\_date | DATE |  |
| genre | VARCHAR(50) |  |
| price | DECIMAL(10, 2) | CHECK (price >= 0) |

**Table: master\_movies**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| movie\_id | INT | PRIMARY KEY |
| movie\_title | VARCHAR(100) | NOT NULL |
| director | VARCHAR(100) |  |
| release\_date | DATE |  |
| genre | VARCHAR(50) |  |
| price | DECIMAL(10, 2) | CHECK (price >= 0) |

**Table: master\_products**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| product\_id | INT | PRIMARY KEY |
| product\_name | VARCHAR(100) | NOT NULL |
| brand | VARCHAR(100) |  |
| manufacture\_date | DATE |  |
| category | VARCHAR(50) |  |
| price | DECIMAL(10, 2) | CHECK (price >= 0) |

**Table: master\_courses**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| course\_id | INT | PRIMARY KEY |
| course\_name | VARCHAR(100) | NOT NULL |
| instructor | VARCHAR(100) |  |
| start\_date | DATE |  |
| category | VARCHAR(50) |  |
| price | DECIMAL(10, 2) | CHECK (price >= 0) |

**Table: master\_restaurants**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| restaurant\_id | INT | PRIMARY KEY |
| restaurant\_name | VARCHAR(100) | NOT NULL |
| cuisine | VARCHAR(100) |  |
| opening\_date | DATE |  |
| rating | DECIMAL(3, 2) | CHECK (rating >= 0 AND rating <= 5) |
| price\_range | VARCHAR(20) |  |

**Table: transactions\_books**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| book\_id | INT |  |
| transaction\_date | DATE |  |
| purchase\_price | DECIMAL(10, 2) | CHECK (purchase\_price >= 0) |
| timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |
| FOREIGN KEY (book\_id) REFERENCES master\_books(book\_id) |  |  |

**Table: transactions\_movies**

|  |  |  |
| --- | --- | --- |
| **column** | **Data Type** | **Constraints** |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| movie\_id | INT |  |
| transaction\_date | DATE |  |
| purchase\_price | DECIMAL(10, 2) | CHECK (purchase\_price >= 0) |
| timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |
| FOREIGN KEY (movie\_id) REFERENCES master\_movies(movie\_id) |  |  |

**Table: transactions\_products**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| product\_id | INT |  |
| transaction\_date | DATE |  |
| purchase\_price | DECIMAL(10, 2) | CHECK (purchase\_price >= 0) |
| Timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |
| FOREIGN KEY (product\_id) REFERENCES master\_products(product\_id) |  |  |

**Table: transactions\_courses**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| course\_id | INT |  |
| transaction\_date | DATE |  |
| purchase\_price | DECIMAL(10, 2) | CHECK (purchase\_price >= 0) |
| Timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |
| FOREIGN KEY (course\_id) REFERENCES master\_courses(course\_id) |  |  |

**Table: transactions\_restaurants**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| restaurant\_id | INT |  |
| transaction\_date | DATE |  |
| total\_bill | DECIMAL(10, 2) | CHECK (total\_bill >= 0) |
| Timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |
| FOREIGN KEY (restaurant\_id) REFERENCES master\_restaurants(restaurant\_id) |  |  |

**Table: transactions\_miscellaneous**

| **Column** | **Data Type** | **Constraints** |
| --- | --- | --- |
| transaction\_id | INT | PRIMARY KEY |
| user\_id | INT |  |
| Description | TEXT |  |
| transaction\_date | DATE |  |
| Amount | DECIMAL(10, 2) | CHECK (amount >= 0) |
| Timestamp | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| FOREIGN KEY (user\_id) REFERENCES users(user\_id) |  |  |

**Inserted values:**

**Table: users**

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**Table: master\_books**

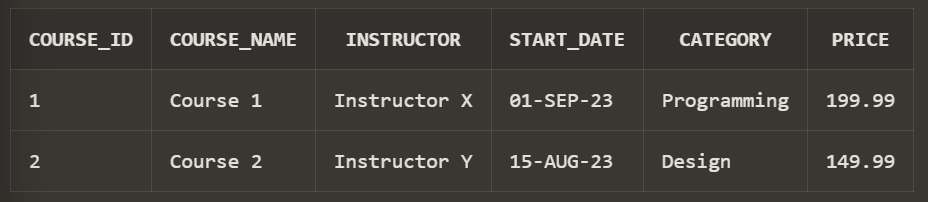
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**Table: master\_movies**

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**Table: master\_products** ****

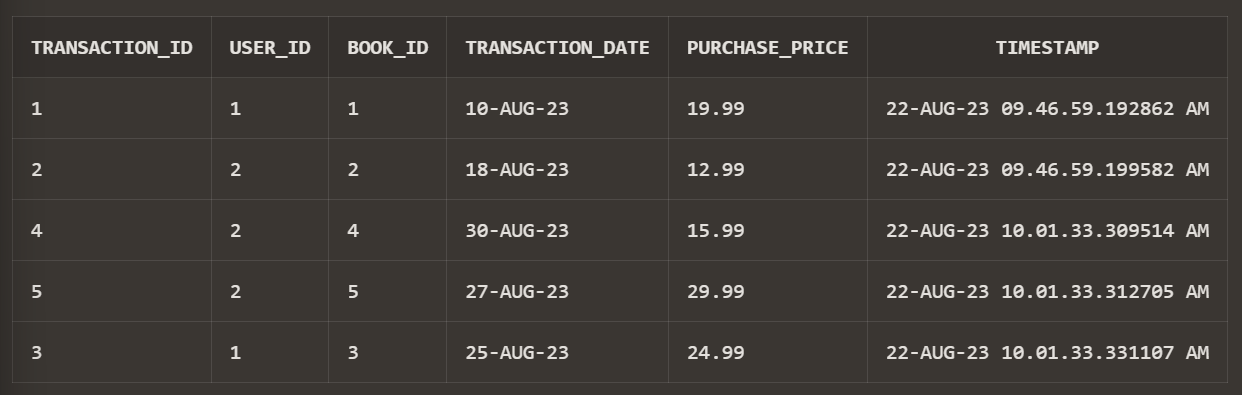
**Table: master\_courses**

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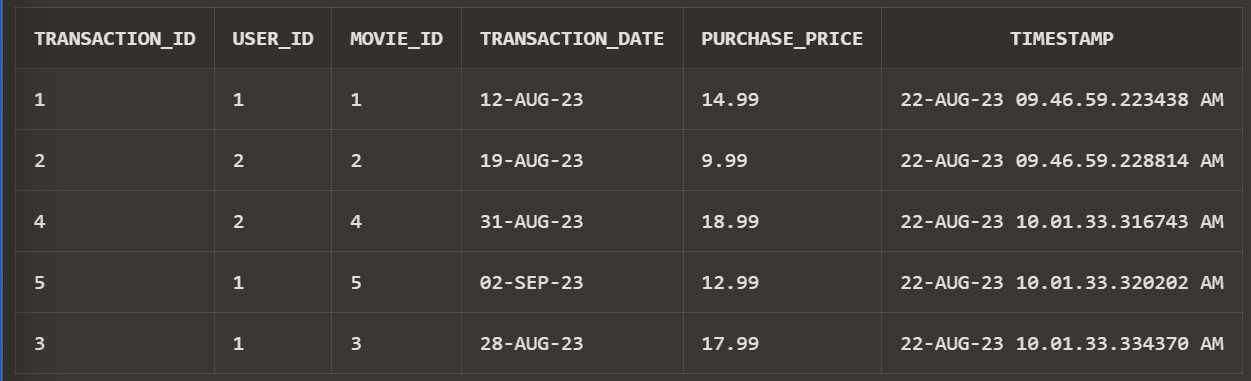
**Table: master\_restaurants**

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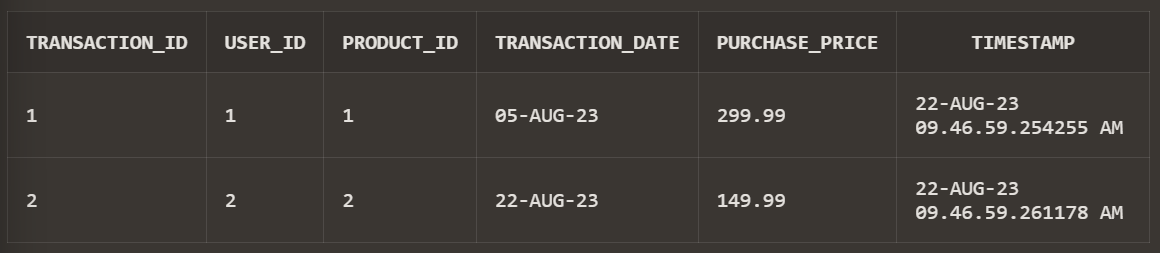
**Table: transactions\_books**

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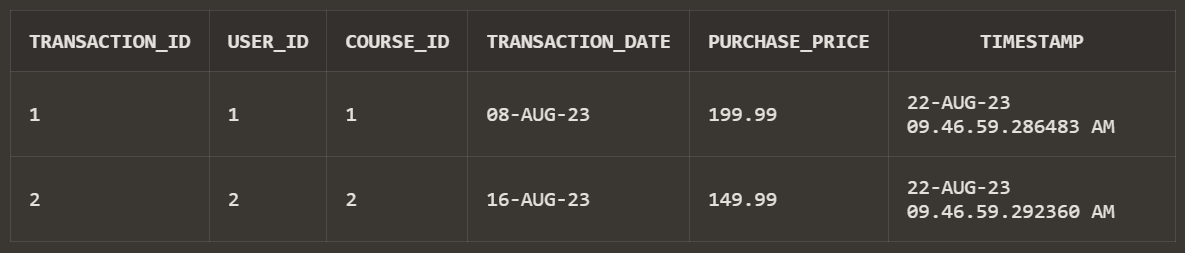
**Table: transactions\_movies**

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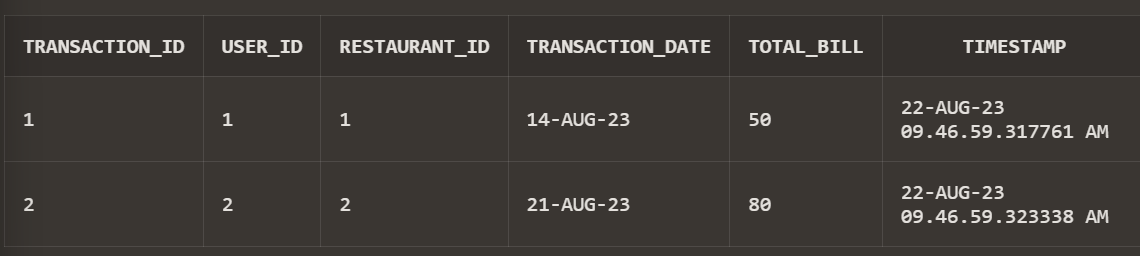
**Table: transactions\_products**

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**Table: transactions\_courses**

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**Table: transactions\_restaurants**

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**Table: transactions\_miscellaneous**

