The database is designed to support an online marketplace for buying and selling a wide range of goods and services. The database stores information about users, transactions, products, and messages.

**Users** are individuals or organizations that can post multiple **ads**, browse listings, and communicate with other users. Each user has a profile that stores information such as their **name**, **contact information, ads, messages, saved items and transactions** where the user can become **buyer or seller**.

**Products** are the items that are being bought, sold, or rented on the platform. Each product has a **description**, **price**, **location**, and other relevant information.

**Ads** are a digital representation of an item or service that can be a product or any service which can be sold, or rented on platform, each ad belongs to a specific category, a user, and to the specific location.

**Categories**, each category can have multiple ads.

**Transactions** represent the exchange of goods or services between users. Each transaction has a buyer, a seller, date, amount and a product or service information.

The **messages** which help for communication between users within the platform. Users can exchange messages related to specific ads, allowing for negotiation, clarification, and coordination. Each message is associated with the sender, recipient, timestamp, and the context of the conversation.

The **location** information, each user, product, and ad are associated with a specific location. For users, this may include their geographical address. Products and ads are linked to a particular location, indicating where the item is located or where a service is offered.

**Favourites** which represent the list of favourite items of the specific user. Each list can contain multiple ads.