# Database Design

## Description

My company will require two products tables one for clothes and one for shoes, the tables will store the product name, price, description, popularity and the image. The company will also keep track of the amount of products sold. There will also be a user table where customers have to login to purchase or sell an item and the admin will have to login to have crud functionality.

## Business Reporting Requirements

Substitute in here the information the users of your application will want to be able to view.

1. Admins need to be able to create, read, update, and delete: festivals, stages, shows, performers, and genres.
2. Users will need to be able to find all products and sort through them and also add products to the database.
3. Users need to find all products using a list of genres.
4. Users need to find the products using a product name.
5. Users need to be able to bid on products.

## Textual Representation of Data-Set

Substitute in here the tables for your database

**SHOES** (id, Name, price, description, popularity, image\_id, genre\_id),

**CLOTHES** (id, Name, price, description, popularity, image\_id, genre\_id),

PRODUCTS\_SOLD(id, product\_id),

**GENRE** (id, trainer, boot, lifestyle, classics, grails)

**IMAGE** (id, filename)

**USERS(id, first\_name,last\_name, email, password)**

**CUSTOMERS(id, users\_id)**

## Business Rules

Substitute in here the business rules for your database

 A **Product** has many customers.

 A **customer can buy many products**

 A **Product** belongs to one **Genre**

 A **Product can have one image**.

## Entity Relationship Diagram

Diagram

Description automatically generated

## Tables

*A diagram of a house

Description automatically generated with low confidence*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table | Attribute | Datatype | Range | Required | PK/FK | FK Ref Table |
| Shoes/clothes | Id  Name  Price  Description  Popularity  Image\_id  Genre\_id | Int  Varchar  Float  Text  Varchar  Int  int |  | Yes  Yes  Yes  Yes  Yes  Yes  Yes | Pk  Fk  fk | Image  genre |
| Genre | Id  Trainer  Boot  Lifestyle  classics | Int  Varvhar  Varchar  Varchar  varchar |  | Yes  Yes  Yes  Yes  Yes | Pk |  |
| Customers | Id  User\_id | Int  int |  | Yes  yes | Pk  Fk | User |
| User | Id  First\_name  Last\_name  Email  password | Int  Varchar  Varchar  string  String |  |  |  |  |
| Image | Id  filename | Int  varchar |  | Yes  yes | pk |  |

## Database Dictionary