GYM Database consists of 12 tables named :

1. INVENTORY
2. EQUIPMENT
3. INVENTORY\_PURCHASE
4. TRAINERS
5. MEMBERSHIP
6. EMPLOYEE\_SCHEDULE
7. USER\_BASIC
8. USER\_CONTACT
9. USER\_TRAINER
10. WORKOUT\_PLAN
11. WORKOUT\_SESSION
12. PROGRESS

**INVENTORY:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Max-Length** | **Precision** | **Default** | **Key** | **Required** | **sample-data** | **notes** |
| equipmentID | int |  |  |  | Primary | Yes | 1 |  |
| description | varchar | 255 |  | NULL |  | Yes | “string” |  |
| serviceRequired | boolean |  |  | false |  | No | 0 | 0 or 1 |

**EQUIPMENT:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Max-Length** | **Precision** | **Default** | **Key** | **Required** | **sample-data** | **notes** |
| equipmentID | int |  |  |  | Primary, Foreign (INVENTORY.equipmentID) | Yes | 1 |  |
| equipmentName | varchar | 255 |  | NULL |  | Yes | “string” |  |
| price | decimal |  | 10, 2 | 0.00 |  | Yes | 100.00 | Currency  Or decimal(10, 2) |
| quantity | int |  |  | 0 |  | Yes | 5 |  |

**INVENTORY\_PURCHASE:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Max-Length** | **Precision** | **Default** | **Key** | **Required** | **sample-data** | **notes** |
| equipmentID | int |  |  |  | Primary, Foreign (INVENTORY.equipmentID) | Yes | 1 |  |
| purchaseDate | date |  |  | CURRENT\_DATE | Primary | Yes | "2022-03-05" | “yyyy-mm-dd” |
| quantity | int |  |  | 0 |  | Yes | 5 |  |

#### USER\_BASIC:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column\_Name | Data\_Type | Size | Required | Data\_Default | Comment/notes | Sample\_Data |
| userID | int | - | yes |  | Primary key of USER\_BASIC table | 6451 |
| firstName | varchar | 50 | yes |  | Store First name of the user | “Mehrnoosh” |
| lastName | varchar | 50 | yes |  | Store Last name of the user | “Sarang” |
| dateOfBirth | date | - | yes | YYYY/MM/DD | Store Date of user birth (YYYY/MM/DD) | 1990/12/14 |
| Gender | varchar | 10 | yes |  | Female/male | F |
| healthCondition | varchar | 100 | No | Null | Does the user has the any health condition | NO/YES |
| membershipID | int | - | yes |  | Foreign Key for USER\_BASIC table -Refer to MEMBERSHIP Table | 123 |

#### USER\_CONTACT:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column\_Name | Data\_Type | Size | Required | Data\_Default | Comment | Sample\_Data |
| userID | int | - | yes |  | PK,FK( refer to USER\_BASIC) | 6451 |
| Email | varchar | 100 | yes |  | Store the email address of the user | “msarang@myseneca.ca” |
| phNumber | varchar | 20 | yes |  | Assuming north america number without +1 | 902400371 |
| Address | varchar | 200 | No | Null | Store Address of the user | “5765 Yonge St” |
| emergencyContact | varchar | 20 | yes |  | Assuming north america number without +1 | 123598337 |
| emergencyContactName | varchar | 100 | No | Null | Store the full name of emergency contact name | “Negar Mohammadi” |

#### USER\_TRAINER;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column\_Name | Data\_Type | Size | Required | Data\_Default | Comment | Sample\_data |
| userID | int | - | yes |  | PK,FK ( foreign key refer to USER\_BASIC table | 6451 |
| trainerID | int | - | yes |  | FK( refer to TRAINERS table) | 50 |

TRAINERS:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default | Description | Range | Sample Data |
| trainerID | int |  |  | PK | Yes |  | Primary key for the trainer | 1-4999 | 1103 |
| firstName | varchar | 50 |  |  | Yes |  | First name of the trainer |  | “John” |
| lastName | varchar | 50 |  |  | Yes |  | Last name of the trainer |  | “Miller” |
| phoneNumber | varchar | 15 |  |  | No |  | Phone number of the trainer | 2000000000- 9999999999 | 4168222943 |
| address | varchar | 100 |  |  | No | Unknown | Address of the trainer |  | “18 King street, ON, Toronto” |
| email | varchar | 100 |  |  | Yes |  | Email address of the trainer |  | “john.miller@gmail.com” |
| emergencyContact | varchar | 50 |  |  | No | NULL | Name and phone of the trainer’s emergency contact |  | “Andy Ford, 6472209887” |
| birthDate | date |  |  |  | Yes |  | Data of birth of the trainer |  | “1999-04-20” |
| gender | varchar | 10 |  |  | Yes |  | Gender of the trainer (eg, male..) |  | “Male” or “Female” |
| trainderDesc | varchar | 500 |  |  | No | NULL | Description of the trainer skills, experience .. |  | “Trainer adept in creating diet plans for members” |
| rating | decimal |  | 2 |  | No | 0.0 | Numeric rating of trainer’s performance |  | 4.6 |

MEMBERSHIP:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default | Description | Range | Sample Data |
| membershipID | int |  |  | PK | Yes |  | Primary key for the membership record | 5000 - 9999 | 5210 |
| membershipStatus | varchar | 50 |  |  | Yes |  | Statues of the membership (eg active) |  | “Active” or “Deactive” |
| membershipPrice | decimal |  | 2 |  | Yes | 0.0 | Price of the membership is the system (currency) | 0.0 - 999.0 | 15.90 |

EMPLOYEE\_SCHEDULE:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default | Description | Range | Sample Data |
| trainerID | int |  |  | FK | Yes |  | Foreign key for the employee schedule | 1-4999 | 1103 |
| membershipID | int |  |  | FK | Yes |  | Foreign key for the employee | 5000 - 9999 | 5210 |
| startTime | time |  |  |  | Yes |  | The start time of the employee schedule | 00:00 - 23:59 | 9:30 |
| endTime | time |  |  |  | Yes |  | The end time of the employee schedule | 00:00 - 23:59 | 15:30 |
| scheduleDate | date |  |  |  | Yes |  | The date that employees schedule begins |  | 2023-05-01 |

WORKOUT\_PLAN :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default |
| workoutPlanID | int | 10 |  | pk | yes | Primary ke for the workout plan |
| userID | int | 10 |  | fk | yes | Foreign key for the workout plan |
| startDate | date |  |  |  | yes | mm/dd/yyyy |
| goal | varchar | 225 |  |  | yes | The final description about the aim of the plan |

WORKOUT\_SESSION :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default |
| sessionID | int | 10 |  | pk | yes | Primary ke for the workout session |
| workoutPlanID | int | 10 |  | fk | yes | Foreign key for the workout session |
| workoutDate | date |  |  |  | yes | mm/dd/yyyy |
| duration | varchar | 20 |  |  | yes | The length of the plan and the expire date |
| notes | varchar | 225 |  |  | yes | Extera notes or situation to know about the trainee |

PROGRESS :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column | Data Type | Max Length | Precision | PK/FK | Required | Default |
| progressID | int | 10 |  | pk | yes | Primary key for the progress |
| userID | int | 10 |  | fk | yes | Foreign key for the progress |
| recordedDate | date |  |  |  | yes | mm/dd/yyyy |
| weight | decimal |  |  |  | yes | The details for the current weight |
| bodyMeasurements | varchar | 225 |  |  | yes | The details of the bodyMeasurements for each person |

Here’s the ERD for all the Tables :

Diagram

Description automatically generated