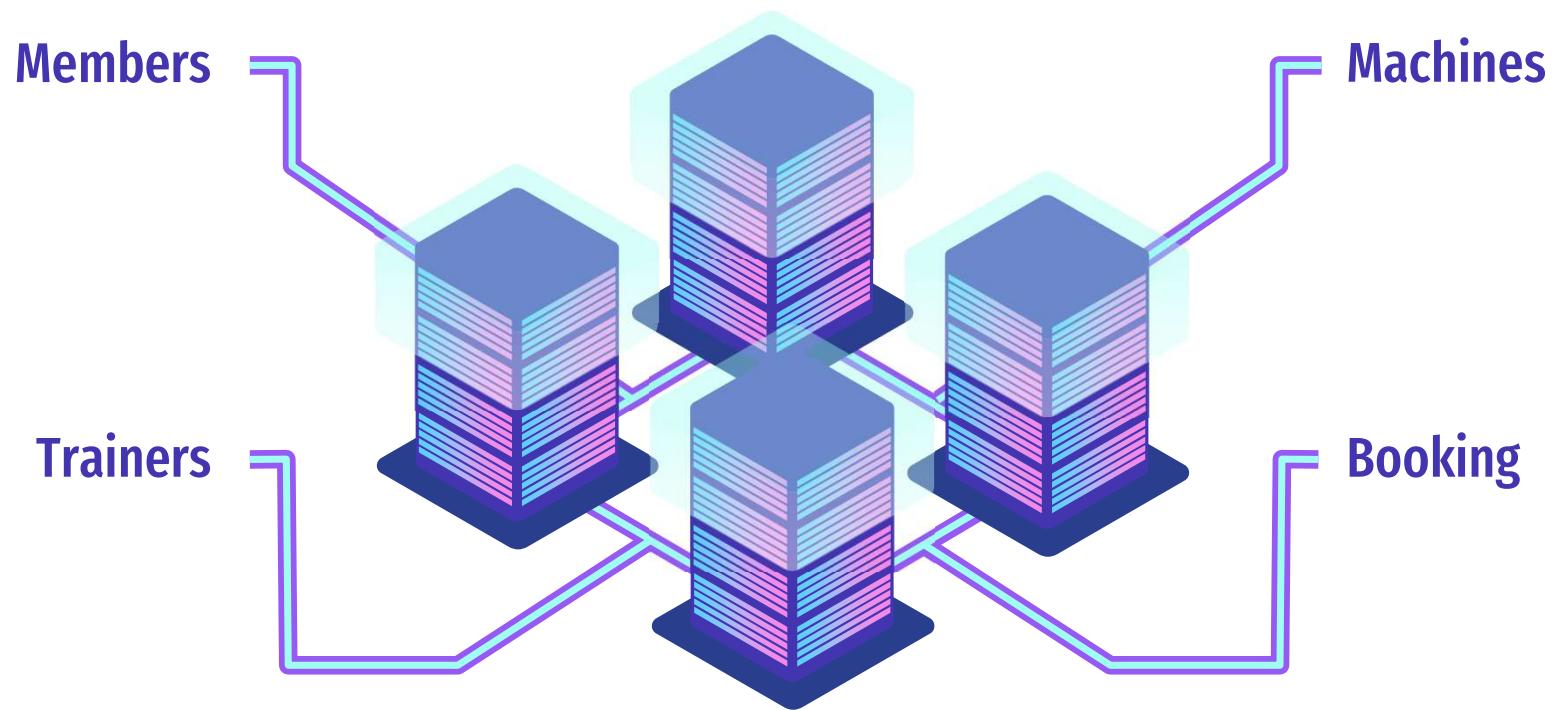# Database - Gym Management

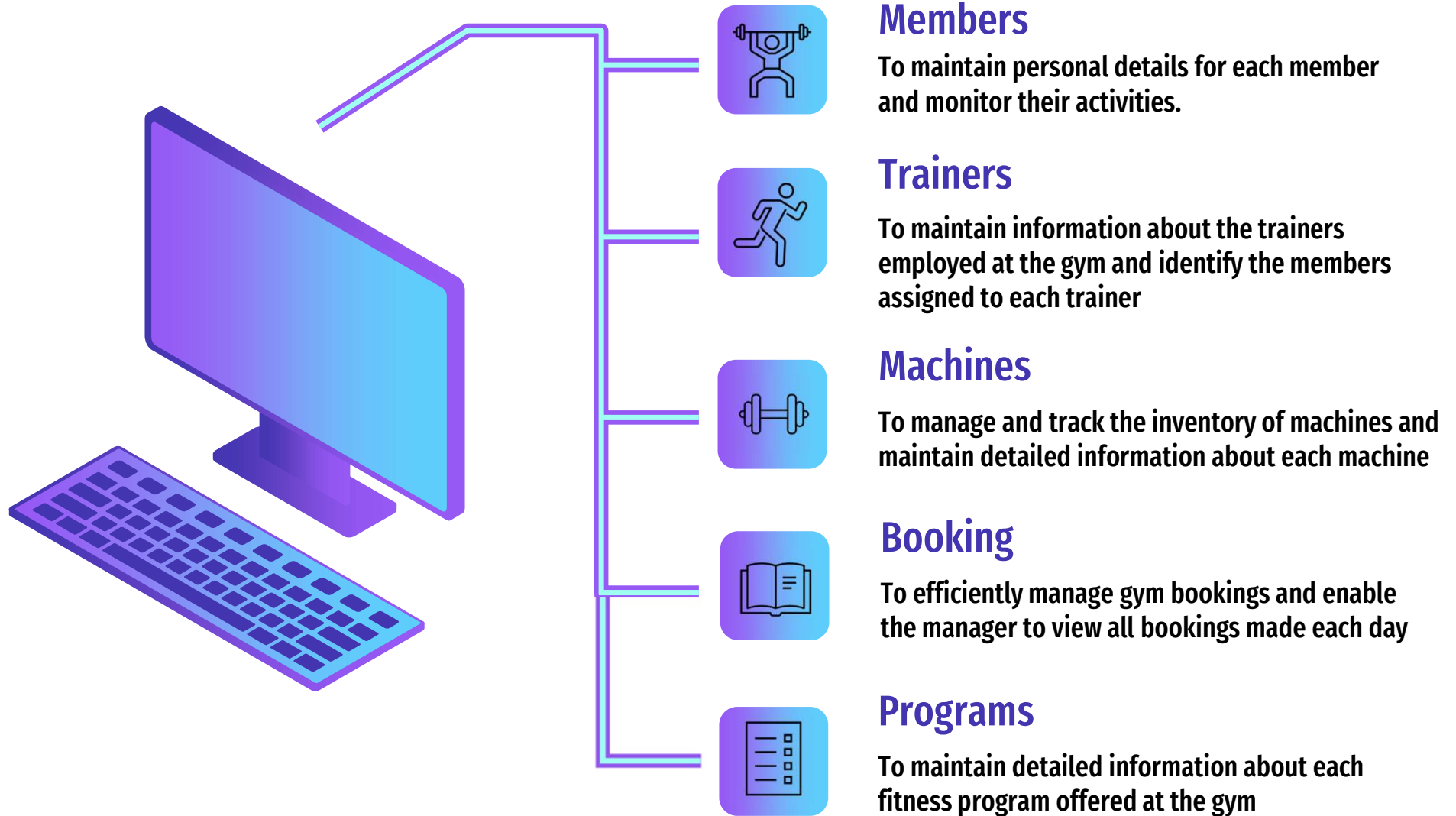Adir Davidov
Omer Meler
Tomer Levy

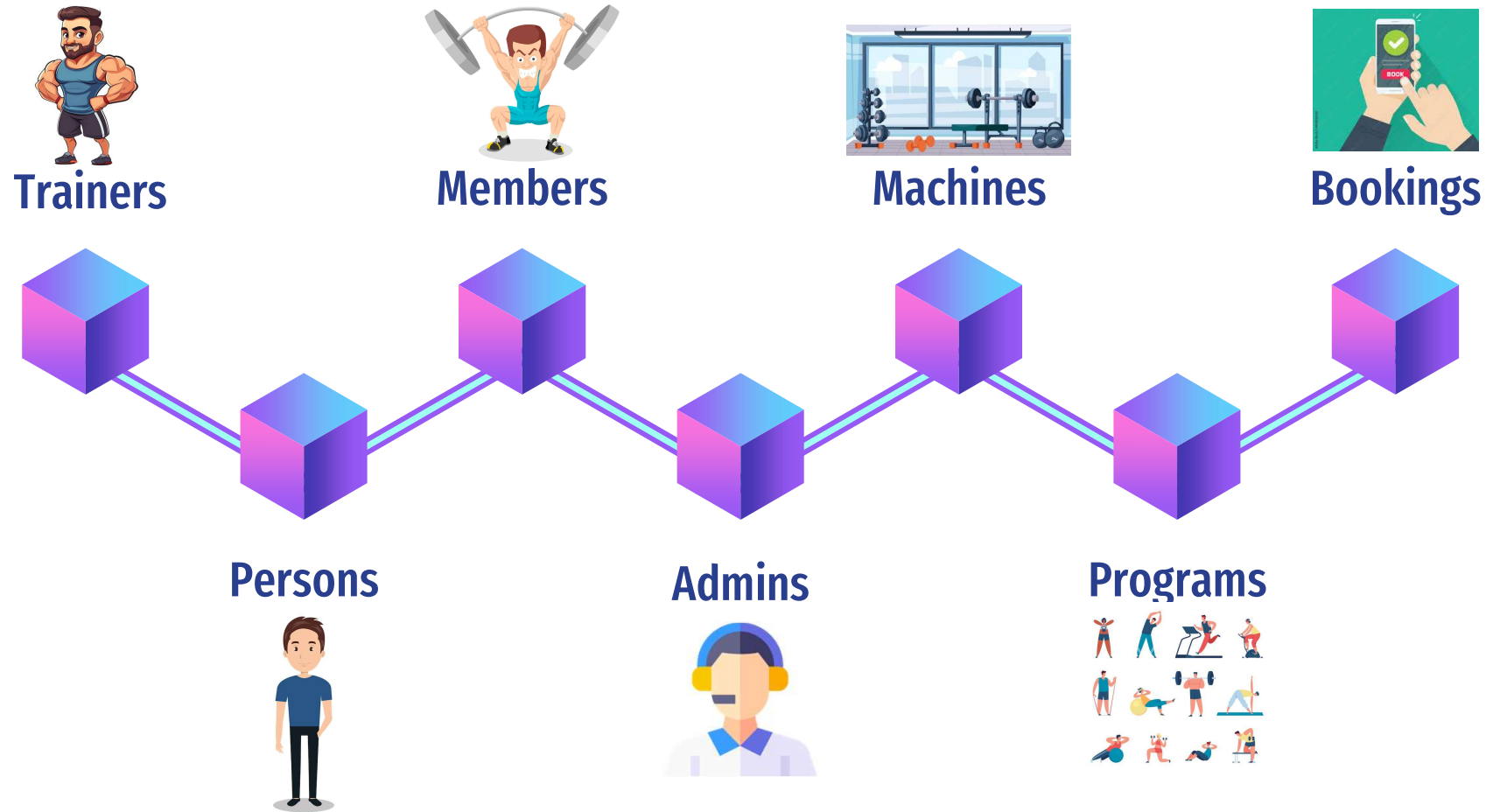# General Description About The Original Program

The Java project called "Gym Management System" was created to help gym managers efficiently track their trainers, members, bookings, and machine inventory. It has a Command Line Interface (CLI) that makes it easy to perform different tasks.

Members

Machines

Trainers

Booking

What Is The Database For?

Members
To maintain personal details for each member and monitor their activities.

Trainers
To maintain information about the trainers employed at the gym and identify the members assigned to each trainer

Machines
To manage and track the inventory of machines and maintain detailed information about each machine

Booking
To efficiently manage gym bookings and enable the manager to view all bookings made each day

Programs
To maintain detailed information about each fitness program offered at the gym

What Is Stored In Our Database

Trainers

Members

Machines

Bookings

Persons

Admins
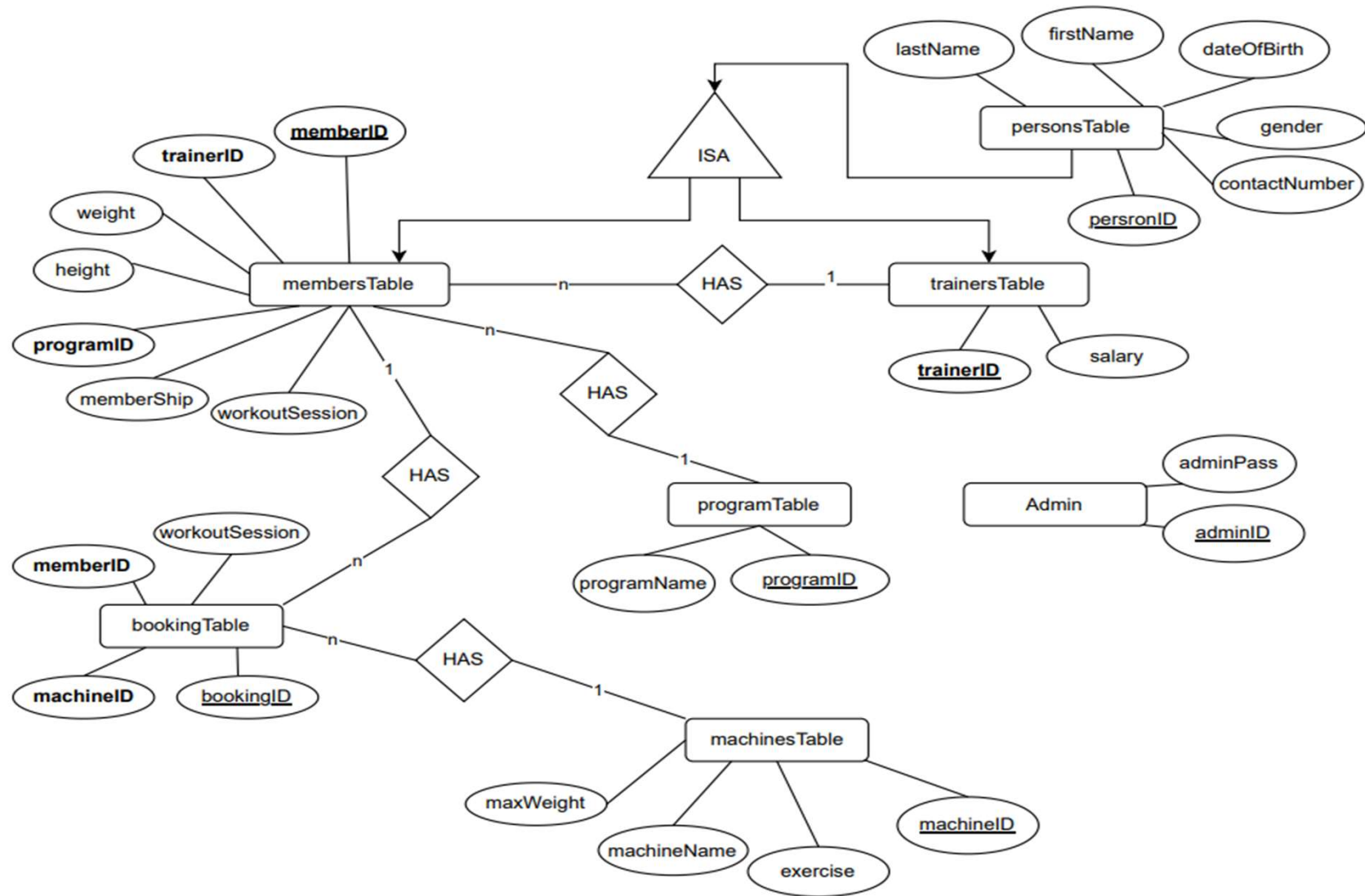
Programs

The Users

Gym manager

With the help of the system, the manager can track the gym's activities. Additionally, managers can manage system permissions and maintain information about the gym

Gym Shift Supervisor

The Shift Supervisor will be able to add new bookings to the system, register new members, and perform other related tasks

ERD

Tables

AdminTable

adminID 🔗	VARCHAR(10)
adminPass	VARCHAR(50)

trainersTable

trainerID 🔗 FK	VARCHAR(9)
salary	INT

Ref: personsTable

programTable

programID 🔗	SERIAL
programName	VARCHAR(50) NN

personsTable

personID 🔗	VARCHAR(9)
firstName	VARCHAR(50) NN
lastName	VARCHAR(50) NN
dateOfBirth	VARCHAR(10) NN
gender	CHAR(1)
contactNumber	VARCHAR(10)

bookingTable

bookingID 🔗	SERIAL
memberID FK	VARCHAR(9)
machineID FK	INT
workoutSession	VARCHAR(50)

Ref: membersTable
Ref: machinesTable

membersTable

memberID 🔗 FK	VARCHAR(9)
weight	DECIMAL NN
height	DECIMAL NN
programID FK	INT
trainerID FK	VARCHAR(9)
workoutSession	VARCHAR(50)
MemberShip	VARCHAR(100)

Ref: personsTable
Ref: programTable
Ref: trainersTable

machinesTable

machineID 🔗	SERIAL
machineName	VARCHAR(50)
maxweight	FLOAT
exercise	VARCHAR(50)