

## 1. Core Entities

Table Name	Primary Key (PK)	Foreign Keys (FK)	Attributes
<b>MEMBER</b>	member_id		name, dateOfBirth, gender, email (Unique), height, weight, heartRate, bodyFatPercentage
<b>TRAINER</b>	trainer_id		name, email (Unique), gender, availability
<b>ADMIN_STAFF</b>	admin_id		name, email (Unique), permissions
<b>DASHBOARD</b>	dashboard_id		metrics, attendance, schedule
<b>FITNESS_GOAL</b>	goal_id	<i>member_id</i>	targetValue, status, description, deadline

2.

### Mapping Foreign Keys

Table Name	Primary Key (PK)	Foreign Keys (FK)	Attributes
<b>GROUP_CLASSES</b>	class_id	<i>trainer_id</i> , <i>admin_id</i>	size, time

### 3. Associative Tables

Table Name	Composite Primary Key (PK)	Foreign Keys (FK)	Attributes
<b>TRAINER_MEMBER_ACCESS</b>	trainer_id, member_id	<i>trainer_id</i> , <i>member_id</i>	limited_access
<b>PERSONAL_TRAINING_ASSIGNMENT</b>	trainer_id, member_id	<i>member_id</i> , <i>trainer_id</i>	
<b>CLASS_ROSTER</b>	class_id, member_id	<i>class_id</i> , <i>member_id</i>	
<b>CLASS_TRAINERS</b>	class_id, trainer_id	<i>class_id</i> , <i>trainer_id</i>	
<b>MEMBER_DASHBOARD_ACCESS</b>	Member_id, dashboard_id	<i>member_id</i> , <i>dashboard_id</i>	