

1. Due to each table having primary keys (and the nature of primary keys requiring a unique value), each table guarantees unique rows. The only multivalued attribute in the ER diagram (phone numbers of managers) has been created in a new table so that no column in any row will have more than one value. Every table is therefore in at least the 1st Normal Form (1NF).
2. Every table is either composed of a single primary key or a composite primary key (such as in ChecksIn) that requires the entire key to determine other columns. Every table is therefore in at least the 2nd Normal Form (2NF).
3. There are no transitive dependencies in any table, so every table is at least in the 3rd Normal Form (3NF).
4. There are no cases in which a non-key column determines a key column, so every table is therefore in the Boyce-Codd Normal Form (3.5NF).

(See following pages for dependencies)

Trainer							
<u>TrainerID</u>	FName	LName	DOB	HourlyPay	PhoneNum	Email	ManID(FK)
	↑	↑	↑	↑	↑	↑	↑

HasSpecialty	
<u>TrainerID(FK)</u>	<u>TypeID(FK)</u>

Class						
<u>ClassID</u>	Name	TypeID(FK)	DaysHeld	TimeHeld	Location	TrainerID(FK)
	↑	↑	↑	↑	↑	↑

RegisteredFor	
<u>ClassID(FK)</u>	<u>MemberID(FK)</u>

ExerciseType	
<u>TypeID</u>	Name
	↑

ClassUses	
<u>ClassID(FK)</u>	<u>EqID(FK)</u>

ChecksIn			
<u>MemberID(FK)</u>	<u>Date</u>	<u>Time</u>	<u>RecID(FK)</u>
	↑	↑	↑

Member								
<u>MemberID</u>	FName	LName	MbrStartDate	MbrEndDate	DOB	PlatEndDate (O)	TrainerID (FK)(O)	ReferredBy (FK)(O)
	↑	↑	↑	↑	↑	↑	↑	↑

Equipment					
<u>EqID</u>	Name	Provid(FK)	TypeID(FK)	CleanID(FK)	Weight(O)
	↑	↑	↑	↑	↑

Receptionist

<u>RecID</u>	FName	LName	DOB	HourlyPay	PhoneNum	Email	ManID(FK)
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Manager

<u>ManID</u>	FName	LName	DOB	HourlyPay	Bonus(O)	Email
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Provider

<u>ProvID</u>	Name	Location	PhoneNum	Email	ManID(FK)
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ManPhone

<u>ManID(FK)</u>	<u>PhoneNum</u>	Label
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Cleaner

<u>CleanID</u>	FName	LName	DOB	HourlyPay	PhoneNum	ManID(FK)
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