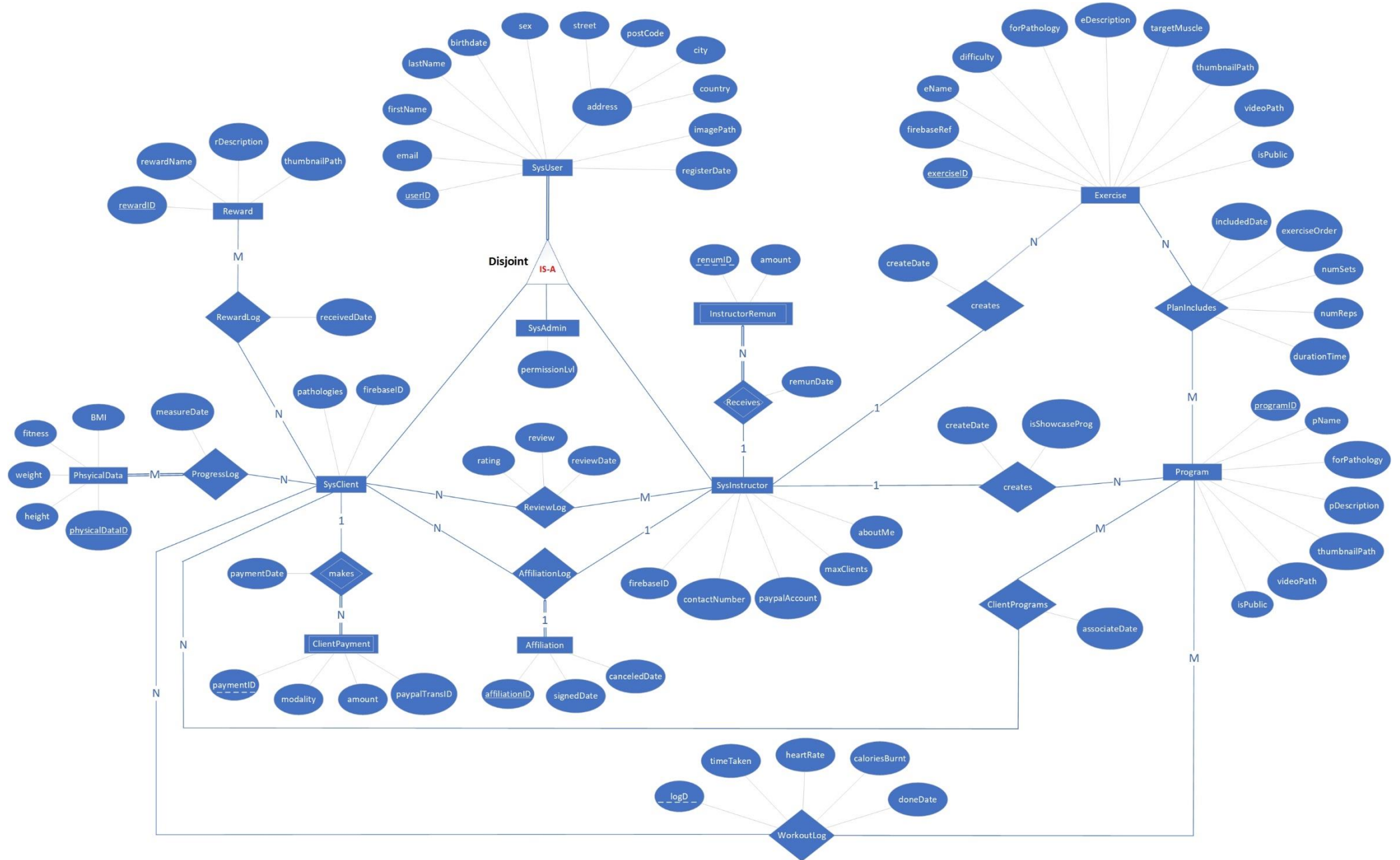


# Entity-Relationship Diagram



## Relation Keys

Relation	Candidate Keys	Primary Key	Foreign Keys
SysUser	{userID}, {Email}	{userID}	-
SysAdmin	{adminID}	{adminID}	{adminID}
SysInstructor	{instructorID}	{instructorID}	{instructorID}
SysClient	{clientID}	{clientID}	{clientID}
Exercise	{exerciseID}	{exerciseID}	{creatorIntsID}
Program	{programID}	{programID}	{creatorIntsID}
PhysicalData	{physicalDataID}	{physicalDataID}	-
Affiliation	{affiliationID}	{affiliationID}	-
Reward	{rewardID}	{rewardID}	-
ClientPayment	-	{paymentID} + {paidClientID}	{paidClientID}
InstructorRemun	-	{renumID} + {receivedInstID}	{receivedInstID}
PlanIncludes	-	{progID} + {exeID}	{progID}, {exeID}
ClientPrograms	-	{forClientID} + {progID}	{forClientID}, {progID}
WorkoutLog	-	{logID} + {doneByClientID} + {progID}	{doneByClientID}, {progID}
ProgressLog	-	{progClientID} + {physicDataID}	{progClientID}, {physicDataID}
AffiliationLog	-	{affID} + {affClientID} + {affInstID}	{affID}, {affClientID}, {affInstID}
ReviewLog	-	{revClientID} + {revIntsID}	{revClientID}, {revIntsID}
RewardLog	-	{rewID} + {rewClientID}	{rewID}, {rewClientID}

# Relational Schema

Relation R	Relational Schema r(R)
SysUser	<u>userID</u> , email, firstName, lastName, birthdate, sex, street, postCode, city, country, registerDate
SysAdmin	<u>adminID</u> , permissionLvl
SysInstructor	<u>instructorID</u> , firebaseID, contactNumber, paypalAccount, maxClients, aboutMe
SysClient	<u>clientID</u> , firebaseID, pathologies
Exercise	<u>exercisID</u> , firebaseRef, eName, difficulty, forPathology, eDescription, targetMuscle, thumbnailPath, videoPath, isPublic, createDate, creatorIntsID
Program	<u>programID</u> , pName, forPathology, pDescription, thumbnailPath, videoPath, isPublic, createDate, isShowcaseProg, creatorIntsID
PhysicalData	<u>physicalDataID</u> , height, weight, fitness, BMI
Affiliation	<u>affiliationID</u> , signedDate, canceledDate
Reward	<u>rewardID</u> , rewardName, rDescription, thumbnailPath
ClientPayment	<u>paymentID</u> , <u>paidClientID</u> , modality, amount, paypalTransID, paymentDate
InstructorRenum	<u>renumID</u> , <u>receivedInstID</u> , amount, remunDate
PlanIncludes	<u>progID</u> , <u>exeID</u> , exerciseOrder, numSets, numReps, durationTime, includedDate
ClientPrograms	<u>forClientID</u> , <u>progID</u> , associateDate
WorkoutLog	<u>logID</u> , <u>doneByClientID</u> , <u>progID</u> , timeTaken, heartRate, caloriesBurnt, doneDate
ProgressLog	<u>progClientID</u> , <u>physicDataID</u> , measureDate
AffiliationLog	<u>affID</u> , <u>affClientID</u> , <u>affInstID</u>
ReviewLog	<u>revClientID</u> , <u>revIntsID</u> , rating, review, reviewDate
RewardLog	<u>rewID</u> , <u>rewClientID</u> , receivedDate