ERD DIAGRAM TO 3NF:

Group : CS566201

Entity 1:

Patient (PatientId, FirstName, LastName, Sex, Phone, Address, City, State, Zip, DateOfBirth).

- In Patient entity PatientId is a primary key.

Entity 2:

Therapist (TherapistId, FirstName, LastName, phone, Email, UserName, Password)

- In Therapist entity therapistId is a primary key.

Entity 3:

Appointment(AppointmentNumber, Duration, AppointmentDate, AppointmentTime, TherapistId, PatientId)

- In Appointment entity AppointmentNumber is a primary Key.
- TherapistId is a foreign key into Therapist table.
- PatientId is a foreign key into Patient table.

Entity 4:

Activity(ActivityNumber, WeightOfElasticBand, ColorElasticBand, Reps, ExerciseNumber, AppointmentNumber).
- In Activity entity ActivityNumber is a primary Key.
- AppointmentNumber is a foreign key into Appointment table.
- ExerciseNumber is a foreign key into Exercises.

Entity 5:

Exercises(ExercisesNumber, BodyPart, TherapistId)

- In Exercises entity ExercisesNumber is a primary key.
- TherapistId is a foreign key into Therapist table.

Entity 6:

Undergoes(ExercisesNumber, PatientId)

- In Undergoes entity ExerciseNumber, PatientId are primary key.
- ExerciseNumber is a foreign key into Exercises.
- PatientId is a foreign key into Patient table.

Entity 7:

Conducts(TherapistId, ExercisesNumber)

- In Conducts entity ExerciseNumber, TherapistId are primary key.
- ExerciseNumber is a foreign key into Exercises.
- TherapistId is a foreign key into Therapist table.