

# Relational Schema

## Step 1: Entities

ADDRESS(AddressID, [pk] StreetNumber, StreetName, Suburb, Postcode)  
CLIENT(ClientID, [pk] Name)  
STAFFMEMBER(StaffID, [pk] Name, Sex, Age)  
QUALIFICATION(QualificationName, [pk] Details)  
DIAGNOSIS(DiagnosisCode, [pk] Description)  
PRACTITIONER(PractitionerID, [pk] Name)  
FUNDINGBODY(FunderID, [pk] Details)  
SERVICE(ServiceCode, [pk] Details)  
MOBILITYTEST(TestID, [pk] Details)  
MOBILITYTESTINGFACILITY(FacilityCode, [pk] Details)  
MOBILITYTESTRESULT(TestResultID, [pk] Details)

## Step 2: Many-to-Many Relationships

MEETS(StaffID [fk1], ClientID [fk2], [pk])  
AFFECTS(DiagnosisCode [fk1], ClientID [fk2], [pk])

## Step 3: One-to-Many Relationships

CLIENT(ClientID, [pk] Name, AddressID [fk1], TestID [fk2])  
STAFFMEMBER(StaffID, [pk] Name, Sex, Age, QualificationName [fk1], Manager [fk2])  
DIAGNOSIS(DiagnosisCode, [pk] Description, PractitionerID [fk])  
SERVICE(ServiceCode, [pk] Details, DiagnosisCode [fk1], FunderID [fk2], StaffID [fk3])  
MOBILITYTEST(TestID, [pk] Details, FacilityCode [fk])  
MOBILITYTESTRESULT(TestResultID, [pk] Details, FacilityCode [fk])

## Step 4: Final Relational Schema

ADDRESS(AddressID, [pk] StreetNumber, StreetName, Suburb, Postcode)

QUALIFICATION(QualificationName, [pk] Details)

PRACTITIONER(PractitionerID, [pk] Name)

FUNDINGBODY(FunderID, [pk] Details)

MOBILITYTESTINGFACILITY(FacilityCode, [pk] Details)

MOBILITYTEST(TestID, [pk] Details, FacilityCode [fk])

MOBILITYTESTRESULT(TestResultID, [pk] Details, FacilityCode [fk])

CLIENT(ClientID, [pk] Name, AddressID [fk1], TestID [fk2])

STAFFMEMBER(StaffID, [pk] Name, Sex, Age, QualificationName [fk1], Manager [fk2])

DIAGNOSIS(DiagnosisCode, [pk] Description, PractitionerID [fk])

SERVICE(ServiceCode, [pk] Details, DiagnosisCode [fk1], FunderID [fk2], StaffID [fk3])

MEETS(StaffID [fk1], ClientID [fk2], [pk])

AFFECTS(DiagnosisCode [fk1], ClientID [fk2], [pk])

