

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])