1. Entity-Relationship Diagram

ServiceCode
ServiceType

DiagnosisCode
Description

SERVICE — *accesses* — DIAGNOSIS

conducts

affects

manages

STAFF — *meets* — CLIENT — *has* — ADDRESS

StaffID
StaffName
Sex
Age

ClientID
Name

AddressID
StreetNumber
StreetName
Suburb
Postcode

holds

QUALIFICATION

QualificationName
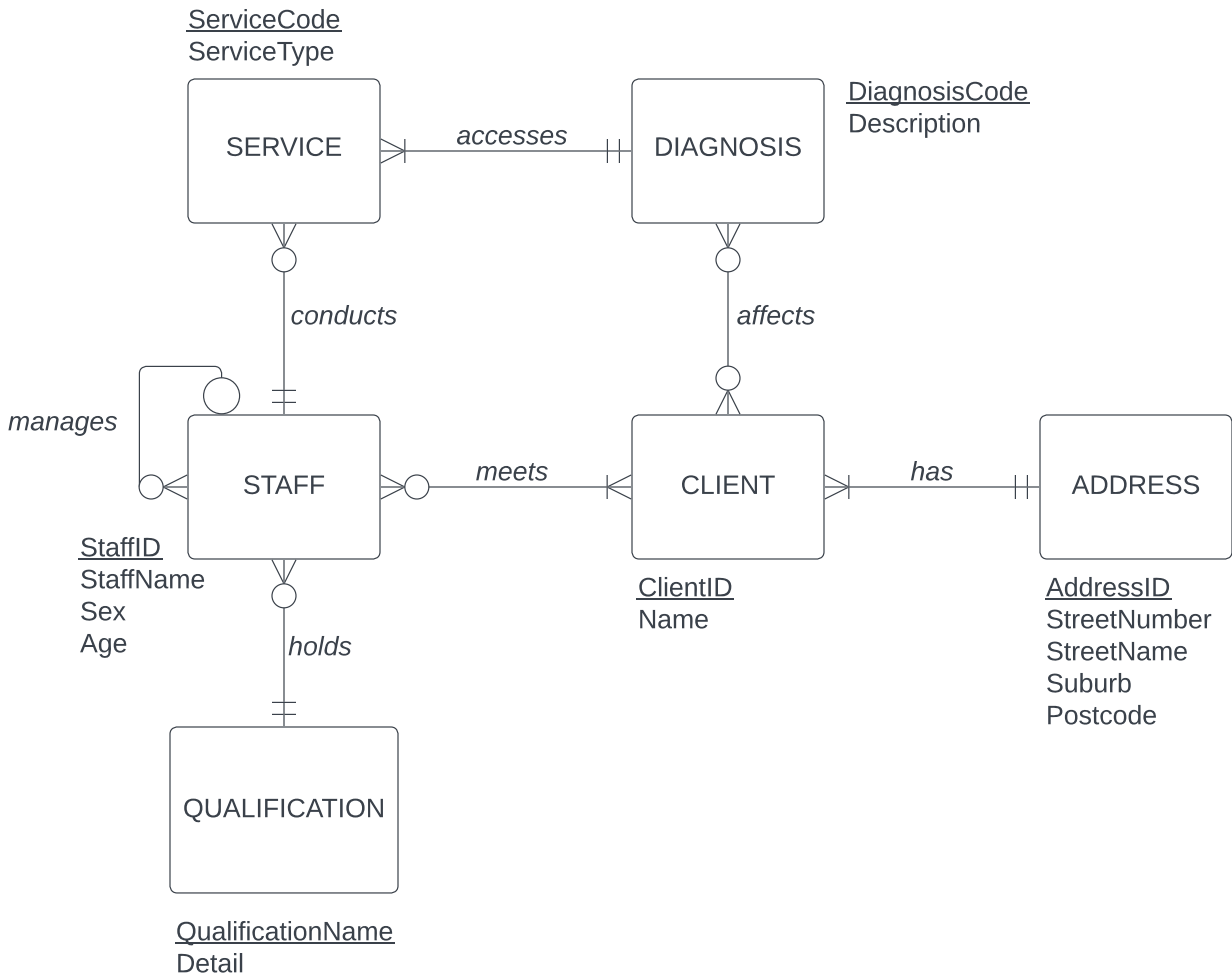Detail

2. Relational Schema

STEP 1:
CLIENT(ClientID,[pk] Name)
ADDRESS(AddressID, [pk] StreetNumber, StreetName, Suburb, Postcode)
STAFF(StaffID, [pk] StaffName, Sex, Age)
DIAGNOSIS(DiagnosisCode, [pk] Description)
QUALIFICATION(QualificationName, [pk] Detail)
SERVICE(ServiceCode, [pk] ServiceType)

STEP 2:
AFFECTS(ClientID [fk1], DiagnosisCode [fk2], [pk])
MEETS(ClientID [fk1], StaffID [fk2], [pk])

STEP 3:
CLIENT(ClientID,[pk] Name, AddressID [fk])
STAFF(StaffID, [pk] StaffName, Sex, Age, QualificationName [fk1], ManagerID [fk2])
SERVICE(ServiceCode, [pk] ServiceType, StaffID [fk1], DiagnosisCode [fk2])

STEP 4:
CLIENT(ClientID,[pk] Name, AddressID [fk])
STAFF(StaffID, [pk] StaffName, Sex, Age, QualificationName [fk1], ManagerID [fk2])
SERVICE(ServiceCode, [pk] ServiceKind, StaffID [fk1], DiagnosisCode [fk2])
ADDRESS(AddressID, [pk] StreetNumber, StreetName, Suburb, Postcode)
DIAGNOSIS(DiagnosisCode, [pk] Description)
QUALIFICATION(QualificationName, [pk] Detail)
AFFECTS(ClientID [fk1], DiagnosisCode [fk2], [pk])
MEETS(ClientID [fk1], StaffID [fk2], [pk])