

Product = (Pid, PType, Color)

Business = (BName, Street, City, State, Zip)

Manufacturer = (MName [fk1], CatalogCapacity)

fk1: MName ~> Business.BName

Inventory = (IName [fk2], Street, City, State, Zip)

fk2: IName ~> Business.BName

CatalogItem = (Clid [fk3], ManName [fk4], Price)

fk3: Clid ~> Product.Pid

fk4: ManName ~> Manufacturer.MName

Hospital = (HName [fk5], MaxDoctors, Budget)

fk5: HName ~> Business.BName

Transactions = (Tid, TDate, Buys [fk6])

fk6: Buys ~> Hospital.HName

TContains = (ProdId, ManId [fk7], TransId [fk8], TransCount)

fk7: ProdId, ManId ~> CatalogItem.Clid, CatalogItem.ManName

fk8: TransId ~> Transactions.Tid

Has = (ProdId [fk9], InvName [fk10], PCount)

fk9: ProdId ~> Product.Pid

fk10: InvName ~> Inventory.IName

SysUser = (Username, Email, Upassword, Fname, Lname)

Doctor = (DocUsername [fk11], ReportsTo [fk12], WorksAt [fk13])

fk11: DocUsername ~> SysUser.Username

fk12: ReportsTo ~> Doctor.DocUsername

fk13: WorksAt ~> Hospital.HName

UsageLog = (ULid, ULTimestamp, UsedBy [fk14])

fk14: Used By ~> Doctor.DocUsername

Used = (LogId [fk15], ProdId [fk16], UseCount)

fk15: LogId ~> UsageLog.ULid

fk16: ProdId ~> Product.Pid

Administrator = (AdminUsername [fk17], Manages [fk18])

fk17: AdminUsername ~> SysUser.Username

fk18: Manages ~> Business.BName