Anna Balin, Ryan Kornitsky, Krish Shah-Nathwani

L   Location(locationID PK UQ, xcoord, ycoord, floor, buildingName, longName, shortName, locationType FK)

LT   LocationType(locationTypeID PK UQ, description)

E   Employee(employeeID PK UQ, username UQ, password, firstName, lastName, NPI UQ, salaryGrade, clearance, locationID FK)

ME   MedicalEquipment(itemID PK UQ, equipmentType, status, locationID FK)

P   Patient(patientID PK UQ, phoneNumber UQ, city, state, firstName, lastName, locationID FK)

SR   ServiceRequest(requestID PK UQ, status, destinationID FK, requesterID FK, assignedID FK, requestType)

LR   LabRequest(requestID PK FK UQ, requestType, labType, patientID FK)

MER   MedicalEquipmentRequest(requestID PK FK UQ, requestType)

ES   EquipmentService(requestID PK FK, itemID PK FK, serviceType)

IPTR   InternalPatientTransportRequest(requestID PK FK UQ, requestType, itemID FK UQ, patientID FK UQ)

ERD Assumptions:

- All ID entries will be primary keys
- There can be only one employee making a service request
- No more than one employee may be assigned to handle a request
- A location must be of one type
- Each type of location must have at least one existent location of that type
- A service request must have only one location as its destination
- A lab request can be placed for only one patient at a time, and there cannot be a lab request for no one
- A transport request can only transport one patient at a time, and there cannot be a transport request for no one
- Each piece of equipment, each employee, and each patient can only be in one place at a time (cannot be in two locations at once)