# **Entity-Relationship Diagrams Mapping**

## **Diagram 1: Music Industry System**

### **Entities:**

* **Musician**
* Attributes: Name, ID
* **Instrument**
* Attributes: Name, Key
* **Album**
* Attributes: Title, Author, ID
* **Song**
* Attributes: Title, Date
* **City**
* Attributes: Address, CitySt, Phone

### **Relationships:**

* **Play** (M:M): Musician ↔ Instrument
* **Produce** (M:M): Musician ↔ Album
* **Appears at** (1:M): City ↔ Musician

## **Diagram 2: Real Estate Management System**

### **Entities:**

* **Property**
* Attributes: ID, Name
* **Location**
* Attributes: Loc, City, State, Zip
* **Work**
* Attributes: NUM
* **Owner**
* Attributes: ID, Name
* **Employee**
* Attributes: ID, Name
* **Sales Office**
* Attributes: (implied from context)

### **Relationships:**

* **List** (M:1): Property ↔ Sales Office
* **Manage** (M:1): Employee ↔ Sales Office
* **Has** (1:1): Property ↔ Location
* **Add** (M:M): Owner ↔ Property
* **Percent-owned** (attribute of Add relationship)

## **Diagram 3: Hospital Management System**

### **Entities:**

* **Patient**
* Attributes: Name, ID, DOB
* **Drug**
* Attributes: ID, Name, Dosage, Brand
* **Nurse**
* Attributes: Name, ID
* **Ward**
* Attributes: Code, Name
* **Consultant**
* Attributes: Name, ID

### **Relationships:**

* **Gives** (M:N:K): Patient ↔ Drug ↔ Nurse
* Attributes: Time, Date, Dosage, Rec
* **Serve in** (M:M): Nurse ↔ Ward
* **Supervises** (1:M): Consultant ↔ Ward
* **Hosts** (1:M): Ward ↔ Patient
* **Assigned to** (M:M): Consultant ↔ Patient
* **Examines** (M:M): Consultant ↔ Patient