**Entities:**

* **Multifamily Unit:** (Central to the model)
  + Attributes: Unit ID (PK), Address, Number of Units, Building Type, Amenities, Year Built, Square Footage, Section 8 Contract (Yes/No), Section 8 Contract Details
* **Counterparty:**
  + Attributes: Counterparty ID (PK), Name, Type, Contact Information, Financial Information
* **Resident** (Optional, if not using Tenant):
  + Attributes: Resident ID (PK), Name, Contact Information, Voucher Information, Income Verification Details, Move-in Date, Lease Agreement Details
* **Risk Event:**
  + Attributes: Risk Event ID (PK), Description, Severity, Likelihood, Potential Financial Impact

**Relationships:**

* **Multifamily Unit** has a **Many-to-Many** relationship with **Counterparty** through a linking table named **MultifamilyUnit\_Counterparty**. This table would have foreign keys for both Multifamily Unit ID and Counterparty ID. This allows a Multifamily Unit to have multiple Counterparties (e.g., tenants, lenders) and a Counterparty to interact with multiple Multifamily Units.
* **Multifamily Unit** has a **One-to-Many** relationship with **Risk Assessment** (bounded context). The Risk Assessment table would have a foreign key referencing the Multifamily Unit ID. This allows capturing risk assessments specific to each unit.
* **Resident** (if used) has a **One-to-Many** relationship with **Resident Selection** and **Resident Lease** (bounded contexts). These tables would have a foreign key referencing the Resident ID. This allows linking resident selection details and lease agreements to specific residents.
* **Multifamily Unit** has a **Many-to-Many** relationship with **Compliance Inspection** (bounded context) through a linking table named **MultifamilyUnit\_Inspection**. This table would have foreign keys for both Multifamily Unit ID and Inspection ID (from the Compliance Inspection table). This allows capturing inspections conducted for specific units.

**Bounded Context Entities (within the ER Diagram):**

* **Risk Assessment:** (linked to Multifamily Unit)
  + Attributes: Risk Assessment ID (PK), Multifamily Unit ID (FK), Counterparty ID (FK), Risk Event ID (FK), Risk Score, Mitigation Strategy
* **Resident Selection** (linked to Resident)
  + Attributes: Selection ID (PK), Resident ID (FK), Application Date, Selection Criteria, Selection Status
* **Resident Lease** (linked to Resident)
  + Attributes: Lease ID (PK), Resident ID (FK), Multifamily Unit ID (FK), Lease Start Date, Lease End Date, Rent Amount
* **Resident Support** (linked to Resident)
  + Attributes: Support ID (PK), Resident ID (FK), Support Service Type, Service Provider, Service Start Date, Service End Date
* **Compliance Inspection** (linked to Multifamily Unit)
  + Attributes: Inspection ID (PK), Multifamily Unit ID (FK), Inspection Date, Inspector Name, Inspection Report, Compliance Status
* **Fair Housing Complaint** (standalone entity)
  + Attributes: Complaint ID (PK), Date Received, Complainant Name, Complaint Details, Resolution Details