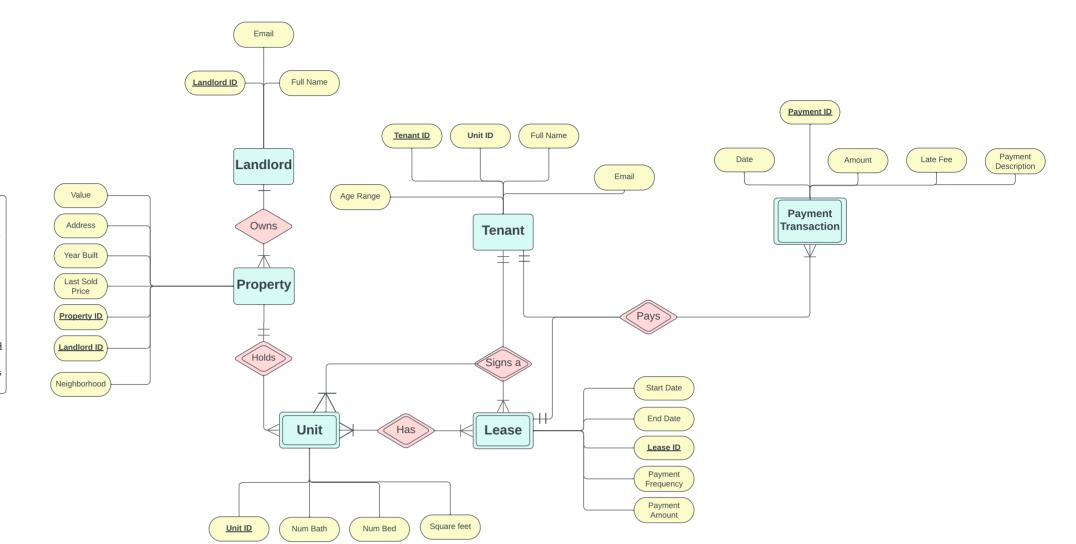# Entity Relationship Diagram

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Business Scenario: Seattle Rental Market
In this project we intend to work in the apartment rental industry in Seattle to understand market trends regarding property values and rental rates. From our data, we can investigate how properties differ in pricing across neighborhoods, which properties have the most units, which leases have the highest rent, and other questions as well. Each property has one landlord, but landlords can own multiple properties. For each property, there are multiple units. Each unit can have one or more lease and tenants. Each tenant pays rent for the unit. By leveraging this information and database into our project, renters and real estate professionals can make informed decisions that can lead to more successful transactions and better returns on investments.

Landlord
- Email
- Landlord ID
- Full Name

Tenant
- Tenant ID
- Unit ID
- Full Name
- Age Range
- Email

Payment Transaction
- Payment ID
- Date
- Amount
- Late Fee
- Payment Description

Property
- Value
- Address
- Year Built
- Last Sold Price
- Property ID
- Landlord ID
- Neighborhood

Unit
- Unit ID
- Num Bath
- Num Bed
- Square feet

Lease
- Start Date
- End Date
- Lease ID
- Payment Frequency
- Payment Amount

Owns — Holds — Has — Signs a — Pays

Landlord

PK	Landlord ID	Serial
	Full Name	Varchar(200)
	Email	Varchar(200)

Property

PK	Property ID	Serial
FK	Landlord ID	Varchar(50)
	Last Sold Price	Money
	Year Built	Date
	Address	Varchar(200)
	Value	Money
	Neighborhood	Varchar(200)

Unit

PK	Unit ID, Property ID	Serial
	Num Bath	Small Int
	Num Bed	Small Int
	Square Feet	Integer
FK	Property ID	Serial

Lease

PK	Lease ID, Unit ID, Tenant ID	Serial
	Start Date	Date
	End Date	Date
	Payment Frequency	Varchar 200
	Payment Amount	Money
FK	Unit ID	Serial
FK	Tenant ID	Serial

Payment Transaction

PK	Payment ID, Tenant ID	Serial
	Date	Date
	Amount	Money
	Late Fee	Money
	Payment Description	Text
FK	Tenant ID	Serial

Tenant

PK	Tenant ID	Serial
FK	Unit ID	Integer
	Full Name	Varchar(200)
	Email	Varchar(200)
	Age Range	Varchar(200)

Owns — Holds — Has — Signs A — Pays