Apartment Maintenance and Complaints Tracker - Logical ERD

VENDOR_COMPANY

PK	VendorID PK	UUID
	CompanyName	VARCHAR
	TaxID	VARCHAR
	PrimaryContactName	VARCHAR
	PhoneNumber	VARCHAR
	EmailAddress	VARCHAR
	StreetAddress	VARCHAR
	City	VARCHAR
	State	VARCHAR
	ZipCode	VARCHAR
	LicenseNumber	VARCHAR
	LicenseExpiryDate	DATE
	InsurancePolicyNumber	VARCHAR
	InsuranceExpiryDate	DATE
	VendorStatus	VARCHAR
	IsPreferred	BOOLEAN
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

WORKER

PK	WorkerID	UUID
FK	VendorID	UUID
	FirstName	VARCHAR
	LastName	VARCHAR
	EmployeeID	VARCHAR
	WorkerType	VARCHAR
	PhoneNumber	VARCHAR
	EmailAddress	VARCHAR
	HourlyRate	DECIMAL
	LicenseNumber	VARCHAR
	LicenseExpiryDate	DATE
	Specialization	VARCHAR
	WorkerStatus	VARCHAR
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

INVOICE

PK	InvoiceID	UUID
	InvoiceNumber	VARCHAR
FK1	WorkOrderID	UUID
FK2	VendorID	UUID
FK3	ApprovedByManagerID	UUID
	InvoiceDate	DATE
	DueDate	DATE
	LaborCost	DECIMAL
	MaterialCost	DECIMAL
	TaxAmount	DECIMAL
	TotalAmount	DECIMAL
	PaymentStatus	VARCHAR
	PaymentDate	DATE
	PaymentMethod	VARCHAR
	PaymentReference	VARCHAR
	ApprovalDate	TIMESTAMP
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

WORK_ORDER

PK	WorkOrderID	UUID
	WorkOrderNumber	VARCHAR
FK1	RequestID	UUID
FK2	UnitID	UUID
FK3	CreatedByManagerID	UUID
FK4	VendorID	UUID
	WorkType	VARCHAR
	WorkDescription	TEXT
	ScheduledDate	DATE
	StartDateTime	TIMESTAMP
	CompletionDateTime	TIMESTAMP
	WorkStatus	VARCHAR
	EstimatedCost	DECIMAL
	ActualCost	DECIMAL
	RequiresApproval	BOOLEAN
	ApprovedByManagerID	UUID
	ApprovalDate	TIMESTAMP
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

WORKER_ASSIGNMENT

PK	AssignmentID	UUID
FK1	WorkOrderID	UUID
FK2	WorkerID	UUID
	AssignedDate	TIMESTAMP
	StartTime	TIMESTAMP
	EndTime	TIMESTAMP
	HoursWorked	DECIMAL
	WorkerRole	VARCHAR
	CreatedDate	TIMESTAMP

PROPERTY MANAGER

PK	ManagerID	UUID
	EmployeeID	VARCHAR
	FirstName	VARCHAR
	LastName	VARCHAR
	EmailAddress	VARCHAR
	PhoneNumber	VARCHAR
	JobTitle	VARCHAR
	Department	VARCHAR
	HireDate	DATE
	ManagerRole	VARCHAR
	MaxApprovalLimit	DECIMAL
	AccountStatus	VARCHAR
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

MAINTENANCE_CATEGORY

PK	CategoryID	UUID
	CategoryCode	VARCHAR
	CategoryName	VARCHAR
	CategoryDescription	TEXT
	DefaultPriority	VARCHAR
	TargetResponseHours	INT
	TargetResolutionHours	INT
	RequiresWorkOrder	BOOLEAN
	IsActive	BOOLEAN
	CreatedDate	TIMESTAMP

NOTIFICATION

PK	NotificationID	UUID
FK1	ResidentID	UUID
FK2	RequestID	UUID
	NotificationType	VARCHAR
	Subject	VARCHAR
	MessageBody	TEXT
	Priority	VARCHAR
	DeliveryChannel	VARCHAR
	ScheduledSendDate	TIMESTAMP
	ActualSentDate	TIMESTAMP
	DeliveryStatus	VARCHAR
	ReadDate	TIMESTAMP
	CreatedDate	TIMESTAMP

MAINTENANCE_REQUEST

PK	RequestID	UUID
FK1	ResidentID	UUID
FK2	UnitID	UUID
FK3	CategoryID	UUID
	RequestTitle	VARCHAR
	RequestDescription	TEXT
	RequestPriority	VARCHAR
	RequestStatus	VARCHAR
	SubmittedDate	TIMESTAMP
	AcknowledgedDate	TIMESTAMP
	CompletedDate	TIMESTAMP
	PermissionToEnter	BOOLEAN
	PetOnPremises	BOOLEAN
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

ESCALATION

PK	EscalationID	UUID
FK1	RequestID	UUID
	EscalationLevel	INT
FK2	EscalatedByManagerID	UUID
	EscalationReason	TEXT
	EscalationDate	TIMESTAMP
	TargetResolutionDate	DATE
	ResolutionDate	TIMESTAMP
	ResolutionNotes	TEXT
	EscalationStatus	VARCHAR
	CreatedDate	TIMESTAMP

EMERGENCY_CONTACT

PK	ContactID	UUID
FK	ResidentID	UUID
	ContactName	VARCHAR
	Relationship	VARCHAR
	PhoneNumber	VARCHAR
	AlternatePhone	VARCHAR
	EmailAddress	VARCHAR
	IsPrimary	BOOLEAN
	CreatedDate	TIMESTAMP

BUILDING_MANAGER_ASSIGNMENT

PK	AssignmentID	UUID
FK1	BuildingID	UUID
FK2	ManagerID	UUID
	AssignmentStartDate	DATE
	AssignmentEndDate	DATE
	IsPrimary	BOOLEAN
	CreatedDate	TIMESTAMP

APARTMENT_UNIT

PK	UnitID	UUID
FK	BuildingID	UUID
	UnitNumber	VARCHAR
	FloorNumber	INT
	UnitType	VARCHAR
	SquareFootage	INT
	NumberBedrooms	INT
	NumberBathrooms	DECIMAL
	BaseRentAmount	DECIMAL
	UnitStatus	VARCHAR
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

RESIDENT

PK	ResidentID	UUID
	FirstName	VARCHAR
	LastName	VARCHAR
	DateOfBirth	DATE
	SSNLast4	VARCHAR
	PrimaryPhone	VARCHAR
	AlternatePhone	VARCHAR
	EmailAddress	VARCHAR
	CurrentAddressID	UUID
	AccountStatus	VARCHAR
	BackgroundCheckStatus	VARCHAR
	BackgroundCheckDate	DATE
	CreditScore	INT
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

BUILDING

PK	BuildingID	UUID
	BuildingName	VARCHAR
	StreetAddress	VARCHAR
	City	VARCHAR
	State	VARCHAR
	ZipCode	VARCHAR
	YearBuilt	INT
	NumberOfFloors	INT
	TotalUnits	INT
	BuildingType	VARCHAR
	HasElevator	BOOLEAN
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

APT_UNIT_AMENITY

PK	UnitAmenityID	UUID
FK1	UnitID	UUID
FK2	AmenityID	UUID
	InstallationDate	DATE
	Condition	VARCHAR
	LastServiceDate	DATE
	CreatedDate	TIMESTAMP

AMENITY

PK	AmenityID	UUID
	AmenityCode	VARCHAR
	AmenityName	VARCHAR
	AmenityType	VARCHAR
	Description	TEXT
	IsActive	BOOLEAN

LEASE

PK	LeaseID	UUID
FK1	ResidentID	UUID
FK2	UnitID	UUID
FK3	PreparedByManagerID	UUID
	LeaseStartDate	DATE
	LeaseEndDate	DATE
	MonthlyRentAmount	DECIMAL
	SecurityDepositAmount	DECIMAL
	PetDepositAmount	DECIMAL
	PaymentDueDay	INT
	LateFeeAmount	DECIMAL
	GracePeriodDays	INT
	LeaseStatus	VARCHAR
	SignedDate	DATE
	MoveInDate	DATE
	MoveOutDate	DATE
	TerminationReason	VARCHAR
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

LEASE_OCCUPANT

PK	OccupantID	UUID
FK1	LeaseID	UUID
FK2	ResidentID	UUID
	OccupantType	VARCHAR
	MoveInDate	DATE
	MoveOutDate	DATE
	CreatedDate	TIMESTAMP

BUILDING_AMENITY

PK	BuildingAmenityID	UUID
FK1	BuildingID	UUID
FK2	AmenityID	UUID
	AmenityLocation	VARCHAR
	AccessRestrictions	VARCHAR
	AdditionalFee	DECIMAL
	CreatedDate	TIMESTAMP

PAYMENT_TRANSACTION

PK	TransactionID	UUID
FK1	LeaseID FK	UUID
FK2	ResidentID FK	UUID
	TransactionType	VARCHAR
	TransactionDate	DATE
	DueDate	DATE
	AmountDue	DECIMAL
	AmountPaid	DECIMAL
	PaymentMethod	VARCHAR
	ReferenceNumber	VARCHAR
	TransactionStatus	VARCHAR
	CreatedDate	TIMESTAMP
	ModifiedDate	TIMESTAMP

Relationship labels: "lists", "submits", "has", "assigned", "gets", "creates", "approves", "requires", "includes", "posts", "tracks", "identifies", "prepares", "has", "manages", "contains", "signs", "submits", "declares", "recieves", "signed by", "makes", "records", "contains"