

Complete Building Management Schema

For Hotels, Rentals, PGs, Schools, and Other Building Types

PART 1: IDENTITY & LEGAL (5 Tables)

1. Building_Ownership

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[owner_id]	UUID	NO	Foreign key to Owner/Party table
[ownership_type]	ENUM	NO	Individual, Partnership, Corporation, Trust, Joint, Government, Co-operative
[ownership_percentage]	DECIMAL(5,2)	NO	Ownership share (0-100%)
[ownership_status]	ENUM	NO	Active, Inactive, Disputed, Under_Review, Transferred
[ownership_role]	VARCHAR	YES	Primary Owner, Co-owner, Beneficial Owner, Registered Owner
[registration_number]	VARCHAR	YES	Government registration number
[registration_authority]	VARCHAR	YES	Authority name (Land Dept, Municipality)
[deed_document_id]	UUID	YES	Link to deed document
[registration_date]	DATE	YES	Official registration date
[acquisition_date]	DATE	NO	When ownership was acquired
[acquisition_price]	DECIMAL(15,2)	YES	Purchase price
[acquisition_currency]	VARCHAR(3)	YES	Currency (AED, USD, INR, etc.)
[previous_owner_id]	UUID	YES	Previous owner if transferred
[transfer_date]	DATE	YES	Transfer date
[mortgage_status]	ENUM	YES	None, Mortgaged, Partially_Mortgaged, Refinanced

Column	Type	Nullable	Description
mortgage_amount	DECIMAL(15,2)	YES	Outstanding mortgage
mortgage_lender	VARCHAR	YES	Bank/lender name
tax_id	VARCHAR	YES	Tax identification number
kyc_status	ENUM	YES	Pending, Verified, Rejected, Expired
kyc_verification_date	DATE	YES	KYC verification date
aml_check_status	ENUM	YES	Pending, Cleared, Flagged, Under_Review
dispute_status	ENUM	YES	None, Disputed, Under_Legal_Review, Resolved
dispute_description	TEXT	YES	Dispute details
lien_status	ENUM	YES	None, Active, Released, Pending
lien_amount	DECIMAL(15,2)	YES	Lien amount
lien_holder	VARCHAR	YES	Lien holder name
created_date	TIMESTAMP	NO	Record creation
created_by	UUID	YES	User who created
updated_date	TIMESTAMP	YES	Last update
updated_by	UUID	YES	User who updated
is_deleted	BOOLEAN	NO	Soft delete flag
notes	TEXT	YES	Additional notes
metadata	JSON	YES	Custom data

2. Building Licenses

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building

Column	Type	Nullable	Description
license_type	ENUM	NO	Operating_License, Business_License, Hotel_License, School_License, Rental_License, Fire_License, Food_Service, Health_Permit, Environmental_Permit, Others
license_number	VARCHAR	NO	Unique license number
issuing_authority	VARCHAR	NO	Govt authority (Municipality, Chamber of Commerce, etc.)
issue_date	DATE	NO	License issuance date
expiry_date	DATE	NO	License expiry date
renewal_date	DATE	YES	Next renewal date
license_status	ENUM	NO	Active, Expired, Suspended, Under_Review, Cancelled
compliance_category	VARCHAR	YES	Category/classification level
document_id	UUID	YES	Link to license document
renewal_reminder_date	DATE	YES	Reminder date for renewal
conditions_restrictions	TEXT	YES	Any special conditions
issued_by	VARCHAR	YES	Name of official who issued
renewal_cost	DECIMAL(10,2)	YES	Renewal fee
renewal_currency	VARCHAR(3)	YES	Currency
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag
metadata	JSON	YES	Custom data

3. Building Certifications

Column	Type	Nullable	Description
id	UUID	NO	Primary key

Column	Type	Nullable	Description
<code>building_id</code>	UUID	NO	Foreign key to Building
<code>certification_type</code>	ENUM	NO	Fire_Safety, Building_Approval, Occupancy_Certificate, Energy_Efficiency, Green_Building, Safety_Audit, Building_Permit, Structural_Approval, Electrical_Safety, Plumbing_Approval, Environmental_Clearance, Others
<code>certification_number</code>	VARCHAR	NO	Unique cert number
<code>issuing_authority</code>	VARCHAR	NO	Authority name
<code>issue_date</code>	DATE	NO	Issuance date
<code>expiry_date</code>	DATE	YES	Expiry date (if applicable)
<code>certification_status</code>	ENUM	NO	Valid, Expired, Pending_Renewal, Suspended, Invalid
<code>validity_period_months</code>	INT	YES	Valid for X months
<code>inspection_date</code>	DATE	YES	Last inspection date
<code>next_inspection_due</code>	DATE	YES	Next inspection due date
<code>inspector_name</code>	VARCHAR	YES	Inspector/auditor name
<code>document_id</code>	UUID	YES	Link to certificate document
<code>comments</code>	TEXT	YES	Inspection comments
<code>created_date</code>	TIMESTAMP	NO	Record creation
<code>updated_date</code>	TIMESTAMP	YES	Last update
<code>is_deleted</code>	BOOLEAN	NO	Soft delete flag

4. Building_Registration

Column	Type	Nullable	Description
<code>id</code>	UUID	NO	Primary key
<code>building_id</code>	UUID	NO	Foreign key to Building
<code>registration_type</code>	ENUM	NO	Property_Registration, Building_Registry, Land_Registration, Municipal_Registration,

Column	Type	Nullable	Description
			Tax_Registration, Corporate_Registration
registration_number	VARCHAR	NO	Official registration number
registration_authority	VARCHAR	NO	Authority (Land Dept, Municipality, etc.)
registration_office_location	VARCHAR	YES	Office location/address
registration_date	DATE	NO	Date of registration
renewal_date	DATE	YES	Next renewal date
registration_status	ENUM	NO	Active, Inactive, Pending, Suspended, Expired
registration_page_number	VARCHAR	YES	Page number in registry
registration_volume	VARCHAR	YES	Volume/book number
plot_number	VARCHAR	YES	Plot/parcel number
district_taluk	VARCHAR	YES	Administrative division
village_town	VARCHAR	YES	Village or town name
document_id	UUID	YES	Link to registration certificate
renewal_cost	DECIMAL(10,2)	YES	Renewal fee
currency	VARCHAR(3)	YES	Currency
registered_owner_name	VARCHAR	YES	Name on registration
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

5. Building_TaxInfo

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building

Column	Type	Nullable	Description
tax_type	ENUM	NO	Property_Tax, Municipal_Tax, GST, VAT, Income_Tax, Business_Tax, Land_Tax, Annual_Tax
tax_id_number	VARCHAR	NO	Tax ID/registration number
tax_jurisdiction	VARCHAR	NO	Jurisdiction (City, District, Country)
tax_assessment_year	INT	NO	Financial year (e.g., 2025)
assessed_value	DECIMAL(15,2)	YES	Assessed property value
annual_tax_amount	DECIMAL(15,2)	YES	Annual tax liability
tax_rate_percentage	DECIMAL(5,2)	YES	Tax rate %
tax_due_date	DATE	YES	Payment due date
tax_payment_status	ENUM	NO	Pending, Paid, Overdue, Partial, Exempted
last_payment_date	DATE	YES	Last payment date
last_payment_amount	DECIMAL(15,2)	YES	Last payment amount
next_assessment_date	DATE	YES	Next assessment date
exemption_status	ENUM	YES	None, Partial, Full, Pending
exemption_reason	VARCHAR	YES	Reason for exemption (Religious, Educational, etc.)
exemption_valid_until	DATE	YES	Exemption expiry date
outstanding_balance	DECIMAL(15,2)	YES	Outstanding tax dues
penalty_charges	DECIMAL(15,2)	YES	Penalty amount (if overdue)
tax_filing_status	ENUM	YES	Filed, Pending, Not_Applicable
currency	VARCHAR(3)	YES	Currency
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

PART 2: PHYSICAL STRUCTURE (5 Tables)

6. Building_Floors

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[floor_number]	INT	NO	Floor number (G=0, 1, 2, 3... B1=-1, B2=-2)
[floor_name]	VARCHAR	YES	Display name (Ground Floor, First Floor, Basement 1)
[floor_type]	ENUM	YES	Ground, Mezzanine, Intermediate, Top, Terrace, Basement
[total_area_sqft]	DECIMAL(10,2)	YES	Total floor area
[usable_area_sqft]	DECIMAL(10,2)	YES	Usable area (excluding walls, shafts)
[common_area_sqft]	DECIMAL(10,2)	YES	Common area (corridors, lobbies)
[number_of_units]	INT	YES	Number of units/rooms on this floor
[floor_status]	ENUM	YES	Operational, Under_Renovation, Closed, Planned
[occupancy_type]	ENUM	YES	Residential, Commercial, Mixed, Parking, Storage, Utility
[ceiling_height_feet]	DECIMAL(5,2)	YES	Ceiling height
[floor_plan_id]	UUID	YES	Link to floor plan document
[created_date]	TIMESTAMP	NO	Record creation
[updated_date]	TIMESTAMP	YES	Last update
[is_deleted]	BOOLEAN	NO	Soft delete flag

7. Building_Units

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building

Column	Type	Nullable	Description
floor_id	UUID	YES	Foreign key to Building_Floors
unit_number	VARCHAR	NO	Unit identifier (101, 102, A1, Suite_201, Room_301)
unit_name	VARCHAR	YES	Display name (e.g., "Deluxe Suite", "Standard Room")
unit_type	ENUM	NO	Studio, 1BHK, 2BHK, 3BHK, Penthouse, Suite, Room, Dormitory, Classroom, Office, Shop, Warehouse, Parking, Storage
unit_category	VARCHAR	YES	Category (Standard, Deluxe, Premium, Budget, etc.)
total_area_sqft	DECIMAL(10,2)	NO	Total area
carpet_area_sqft	DECIMAL(10,2)	YES	Carpet/usable area
built_up_area_sqft	DECIMAL(10,2)	YES	Built-up area
number_of_bedrooms	INT	YES	Bedrooms count
number_of_bathrooms	INT	YES	Bathrooms count
number_of_balconies	INT	YES	Balconies count
balcony_area_sqft	DECIMAL(10,2)	YES	Balcony area
occupancy_capacity	INT	NO	Max occupancy (persons for hotels, students for schools)
furnished_status	ENUM	NO	Furnished, Semi_Furnished, Unfurnished
unit_status	ENUM	NO	Available, Occupied, Under_Maintenance, Reserved, Blocked, Unavailable
rent_amount	DECIMAL(10,2)	YES	Rental amount (for PGs, Rentals)
rent_frequency	ENUM	YES	Monthly, Quarterly, Yearly, Per_Night, Per_Day, Per_Hour
room_rate	DECIMAL(10,2)	YES	Room rate (for Hotels)
room_rate_currency	VARCHAR(3)	YES	Currency
seasonal_pricing	BOOLEAN	YES	If pricing varies by season
accessibility_features	VARCHAR	YES	Wheelchair accessible, etc.
window_type	ENUM	YES	Open, Closed, Partial, None
ventilation_type	ENUM	YES	Natural, AC, Mixed

Column	Type	Nullable	Description
flooring_type	VARCHAR	YES	Ceramic, Wooden, Marble, etc.
wall_paint_condition	VARCHAR	YES	Good, Fair, Poor, Needs_Repainting
utilities_included	VARCHAR	YES	Water, Electricity, Gas, WiFi, etc.
parking_included	BOOLEAN	YES	Parking available
parking_space_number	VARCHAR	YES	Assigned parking spot number
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag
metadata	JSON	YES	Custom data

8. Building_Amenities

Column	Type	Nullable	Description
<code>id</code>	UUID	NO	Primary key
<code>building_id</code>	UUID	YES	Foreign key to Building (NULL if unit-level amenity)
<code>unit_id</code>	UUID	YES	Foreign key to Building_Units (NULL if building-level)
<code>amenity_type</code>	ENUM	NO	WiFi, Parking, Security, CCTV, Elevator, Generator, Water_Backup, AC, Heating, Kitchen, Laundry, Gym, Pool, Garden, Playground, Lounge, Library, Cafeteria, Auditorium, Gym_Equipment, Study_Room, Recreation_Center, Others
<code>amenity_name</code>	VARCHAR	NO	Display name (e.g., "Olympic Size Swimming Pool")
<code>availability_status</code>	ENUM	NO	Available, Unavailable, Under_Maintenance, Planned
<code>capacity</code>	INT	YES	Max capacity (persons, vehicles for parking)
<code>operational_hours_start</code>	TIME	YES	Opening time (e.g., 06:00 for gym)
<code>operational_hours_end</code>	TIME	YES	Closing time
<code>is_24_7</code>	BOOLEAN	YES	24/7 operational

Column	Type	Nullable	Description
additional_charges	DECIMAL(10,2)	YES	Additional fees (if any)
charge_frequency	ENUM	YES	One_Time, Monthly, Per_Use, Per_Hour
description	TEXT	YES	Amenity description
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

9. Building Measurements

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
total_built_up_area_sqft	DECIMAL(12,2)	YES	Total built-up area
plot_area_sqft	DECIMAL(12,2)	YES	Total plot/land area
carpet_area_sqft	DECIMAL(12,2)	YES	Carpet/usable area
common_area_sqft	DECIMAL(12,2)	YES	Common area (lobbies, corridors)
parking_area_sqft	DECIMAL(12,2)	YES	Parking area
terrace_area_sqft	DECIMAL(12,2)	YES	Terrace/roof area
garden_area_sqft	DECIMAL(12,2)	YES	Garden area
length_feet	DECIMAL(10,2)	YES	Plot length
width_feet	DECIMAL(10,2)	YES	Plot width
height_feet	DECIMAL(10,2)	YES	Building height
ground_coverage_percentage	DECIMAL(5,2)	YES	Ground coverage %
floor_area_ratio	DECIMAL(5,2)	YES	FAR (Floor Area Ratio)
total_floors	INT	NO	Number of floors

Column	Type	Nullable	Description
underground_floors	INT	YES	Basement levels
measurement_unit	VARCHAR(10)	NO	sqft, sqm
measurement_verified_date	DATE	YES	Date measurements were verified
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

10. Building_StructureDetails

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
structural_type	ENUM	NO	RCC, Steel, Brick_Masonry, Pre_Fabricated, Wooden, Composite, Stone, Adobe
foundation_type	ENUM	YES	Raft, Pile, Strip, Pad, Pile_Cap, Suspended, Others
wall_type	ENUM	YES	Load_Bearing, Non_Load_Bearing, Curtain_Wall, Cavity_Wall
roof_type	ENUM	YES	Flat_RCC, Sloped, Terrace, Metal, Tile, Concrete, Wood, Green_Roof
flooring_type	ENUM	YES	Concrete, Marble, Ceramic, Wood, Mosaic, Granite, Tiles
exterior_material	VARCHAR	YES	Brick, Stone, Marble, Glass, Metal, Composite, Paint, Others
construction_year	INT	NO	Year construction completed
renovation_year	INT	YES	Last renovation year
structural_age_years	INT	YES	Age in years (auto-calculated)
condition_rating	ENUM	YES	Excellent, Good, Fair, Poor, Critical_Repair_Needed
seismic_zone	VARCHAR	YES	Seismic classification (Zone 1-5)

Column	Type	Nullable	Description
fire_rating	ENUM	YES	A, B, C, D, Others
electrical_system_type	ENUM	YES	Single_Phase, Three_Phase, Solar, Hybrid, Others
plumbing_system_type	ENUM	YES	Copper, CPVC, PVC, Iron, Mixed
hvac_system	ENUM	YES	Window_AC, Central_AC, VRF, None, Others
water_supply_type	ENUM	YES	Municipal, Borewell, Tank, Mixed
water_storage_capacity_liters	INT	YES	Tank capacity
sewage_system_type	ENUM	YES	Public_Sewer, Septic_Tank, Treatment_Plant
elevator_count	INT	YES	Number of elevators
elevator_capacity_kg	INT	YES	Capacity per elevator
staircase_count	INT	YES	Number of staircases
emergency_exits	INT	YES	Number of emergency exits
last_structural_audit_date	DATE	YES	Last structural audit date
structural_audit_report_id	UUID	YES	Link to audit report
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

PART 3: LOCATION & GEOGRAPHY (3 Tables)

11. Building_Location

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building (Unique)
street_address	VARCHAR	NO	Street number and name
building_number	VARCHAR	YES	Building number

Column	Type	Nullable	Description
neighborhood	VARCHAR	YES	Neighborhood/locality name
locality_code	VARCHAR	YES	Locality/zone code
city	VARCHAR	NO	City name
district	VARCHAR	YES	District name
state_province	VARCHAR	NO	State/Province
postal_code	VARCHAR	NO	ZIP/Postal code
country	VARCHAR	NO	Country name
country_code	VARCHAR(2)	YES	ISO country code (AE, IN, US, etc.)
latitude	DECIMAL(10,8)	YES	GPS latitude
longitude	DECIMAL(11,8)	YES	GPS longitude
google_maps_url	VARCHAR	YES	Google Maps link
location_type	ENUM	YES	Urban, Suburban, Rural, Downtown, Waterfront
accessibility_score	INT	YES	Accessibility rating (1-10)
nearby_landmarks	TEXT	YES	Nearby landmarks description
proximity_to_highway_km	DECIMAL(5,2)	YES	Distance to highway
proximity_to_airport_km	DECIMAL(5,2)	YES	Distance to airport
proximity_to_railway_km	DECIMAL(5,2)	YES	Distance to railway
proximity_to_school_km	DECIMAL(5,2)	YES	Distance to school
proximity_to_hospital_km	DECIMAL(5,2)	YES	Distance to hospital
proximity_to_market_km	DECIMAL(5,2)	YES	Distance to market
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

12. Building_Zones

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[zone_type]	ENUM	NO	Municipal_Zone, Planning_Zone, Utility_Zone, School_Zone, Commercial_Zone, Residential_Zone, Industrial_Zone, Special_Economic_Zone, Heritage_Zone, Environmental_Zone
[zone_name]	VARCHAR	NO	Zone name/code
[zone_classification]	VARCHAR	YES	Zone classification (R1, R2, C1, I1, etc.)
[zoning_authority]	VARCHAR	YES	Authority managing zone
[zoning_regulation_document_id]	UUID	YES	Link to zoning regulations
[permitted_uses]	TEXT	YES	Permitted land uses (comma separated)
[restricted_uses]	TEXT	YES	Restricted uses
[floor_area_ratio_allowed]	DECIMAL(5,2)	YES	Max FAR allowed
[height_restriction_feet]	DECIMAL(10,2)	YES	Max building height
[setback_from_road_feet]	DECIMAL(10,2)	YES	Mandatory setback
[coverage_ratio_percentage]	DECIMAL(5,2)	YES	Max ground coverage %
[parking_requirement_ratio]	DECIMAL(5,2)	YES	Parking to area ratio
[green_space_requirement_percentage]	DECIMAL(5,2)	YES	Green space required %
[created_date]	TIMESTAMP	NO	Record creation
[updated_date]	TIMESTAMP	YES	Last update
[is_deleted]	BOOLEAN	NO	Soft delete flag

13. Building_NearbyFacilities

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[facility_type]	ENUM	NO	School, Hospital, Market, Park, Transport, Restaurant, Bank, ATM, Gym, Library, Police_Station, Fire_Station, Shopping_Center, Cinema, Religious_Place, Others
[facility_name]	VARCHAR	NO	Name of facility
[distance_km]	DECIMAL(5,2)	YES	Distance in km
[distance_minutes_walk]	INT	YES	Walking time in minutes
[distance_minutes_drive]	INT	YES	Driving time in minutes
[rating]	DECIMAL(3,1)	YES	Rating (1-5 stars)
[contact_number]	VARCHAR	YES	Phone number
[address]	VARCHAR	YES	Address of facility
[latitude]	DECIMAL(10,8)	YES	GPS latitude
[longitude]	DECIMAL(11,8)	YES	GPS longitude
[created_date]	TIMESTAMP	NO	Record creation
[updated_date]	TIMESTAMP	YES	Last update
[is_deleted]	BOOLEAN	NO	Soft delete flag

PART 4: OPERATIONS & POLICIES (4 Tables)

14. Building_Policies

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building

Column	Type	Nullable	Description
policy_type	ENUM	NO	Check_In_Out, Cancellation, Guest_Policy, Pet_Policy, Smoking_Policy, Visitor_Policy, Noise_Policy, Maintenance_Policy, House_Rules, Parking_Policy, Security_Policy, Refund_Policy, Others
policy_name	VARCHAR	NO	Policy name
policy_description	TEXT	NO	Full policy text
effective_date	DATE	NO	When policy takes effect
expiry_date	DATE	YES	Policy expiry date
policy_status	ENUM	NO	Active, Inactive, Draft, Suspended
check_in_time	TIME	YES	Check-in time (for hotels)
check_out_time	TIME	YES	Check-out time
early_check_in_allowed	BOOLEAN	YES	Early check-in allowed
early_check_in_charge	DECIMAL(10,2)	YES	Charge if early checkin
late_check_out_allowed	BOOLEAN	YES	Late check-out allowed
late_check_out_charge	DECIMAL(10,2)	YES	Charge per hour for late checkout
pets_allowed	BOOLEAN	YES	Pets allowed
pet_deposit	DECIMAL(10,2)	YES	Pet deposit/fee
visitors_allowed	BOOLEAN	YES	Visitors allowed
visitor_hours_start	TIME	YES	Visitor hours start
visitor_hours_end	TIME	YES	Visitor hours end
quiet_hours_start	TIME	YES	Quiet hours start
quiet_hours_end	TIME	YES	Quiet hours end
smoking_allowed	BOOLEAN	YES	Smoking allowed
alcohol_allowed	BOOLEAN	YES	Alcohol allowed
guest_capacity_per_unit	INT	YES	Max guests per unit
cancellation_days_advance	INT	YES	Days in advance for free cancellation

Column	Type	Nullable	Description
cancellation_fee_percentage	DECIMAL(5,2)	YES	Cancellation fee %
damage_deposit_required	BOOLEAN	YES	Deposit required
damage_deposit_amount	DECIMAL(10,2)	YES	Deposit amount
created_date	TIMESTAMP	NO	Record creation
updated_by	UUID	YES	User who last updated
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

15. Building_Pricing

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
unit_id	UUID	YES	Foreign key to Building_Units (for unit-specific pricing)
pricing_type	ENUM	NO	Base_Rate, Seasonal_Rate, Promotional_Rate, Group_Rate, Corporate_Rate, Student_Rate, Family_Rate, Long_Term_Rate
pricing_name	VARCHAR	NO	Price plan name (e.g., "Summer Season", "Weekend Rate")
base_rate	DECIMAL(12,2)	NO	Base price
currency	VARCHAR(3)	NO	Currency (AED, USD, INR)
rate_per	ENUM	NO	Per_Night, Per_Day, Per_Hour, Per_Month, Per_Year, Per_Student, Per_Room, Per_Unit
occupancy_type	VARCHAR	YES	Single, Double, Family, Group
min_occupancy	INT	YES	Min occupancy for this rate

Column	Type	Nullable	Description
max_occupancy	INT	YES	Max occupancy for this rate
effective_from_date	DATE	NO	Rate effective date
effective_to_date	DATE	YES	Rate expiry date
advance_booking_discount_percentage	DECIMAL(5,2)	YES	Discount % for advance booking
advance_booking_days	INT	YES	Advance days required for discount
early_bird_discount_percentage	DECIMAL(5,2)	YES	Discount % for early bird
group_discount_applicable	BOOLEAN	YES	Group discount available
group_discount_percentage	DECIMAL(5,2)	YES	Group discount %
group_min_size	INT	YES	Minimum group size
long_term_discount_percentage	DECIMAL(5,2)	YES	Discount for 3+ months
weekend_surcharge_percentage	DECIMAL(5,2)	YES	Additional charge for weekends
holiday_surcharge_percentage	DECIMAL(5,2)	YES	Additional charge for holidays
extra_bed_charge	DECIMAL(10,2)	YES	Charge per extra bed
extra_guest_charge	DECIMAL(10,2)	YES	Charge per extra guest
taxes_included	BOOLEAN	YES	Price includes taxes
tax_percentage	DECIMAL(5,2)	YES	Tax % (if not included)
service_charge_applicable	BOOLEAN	YES	Service charge added
service_charge_percentage	DECIMAL(5,2)	YES	Service charge %
cleaning_fee	DECIMAL(10,2)	YES	One-time cleaning fee
facility_fee	DECIMAL(10,2)	YES	One-time facility fee
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

16. Building_Occupancy

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[unit_id]	UUID	YES	Foreign key to Building_Units
[occupancy_date]	DATE	NO	Date of occupancy record
[total_units]	INT	NO	Total units/rooms
[occupied_units]	INT	NO	Currently occupied units
[available_units]	INT	NO	Available units
[reserved_units]	INT	NO	Reserved units
[maintenance_units]	INT	NO	Units under maintenance
[occupancy_percentage]	DECIMAL(5,2)	NO	Occupancy %
[occupancy_type_breakdown]	JSON	YES	Breakdown by room type (e.g., {"Standard": 30, "Deluxe": 15})
[current_guests_count]	INT	YES	Total guests currently
[average_stay_length_days]	DECIMAL(5,2)	YES	Avg length of stay
[created_date]	TIMESTAMP	NO	Record creation
[updated_date]	TIMESTAMP	YES	Last update

17. Building_Schedule

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[unit_id]	UUID	YES	Foreign key to Building_Units

Column	Type	Nullable	Description
schedule_type	ENUM	NO	Maintenance, Cleaning, Inspection, Event, Closure, Holiday, Staff_Shift
schedule_name	VARCHAR	NO	Schedule name
scheduled_date_start	DATE	NO	Start date
scheduled_date_end	DATE	YES	End date
scheduled_time_start	TIME	YES	Start time
scheduled_time_end	TIME	YES	End time
frequency	ENUM	YES	One_Time, Daily, Weekly, Monthly, Quarterly, Yearly, As_Needed
recurrence_pattern	VARCHAR	YES	Detailed recurrence (e.g., "Every Monday", "Last Friday of month")
responsible_person	UUID	YES	Assigned staff member
estimated_duration_hours	DECIMAL(5,2)	YES	Duration in hours
schedule_status	ENUM	NO	Pending, In_Progress, Completed, Cancelled, Rescheduled
completion_date	DATE	YES	Actual completion date
notes	TEXT	YES	Notes/comments
impact_on_guests	ENUM	YES	Affects occupancy (None, Minor, Major)
advance_notice_days	INT	YES	Days notice given to guests
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

PART 5: FINANCIAL (3 Tables)

18. Building_Expenses

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[expense_date]	DATE	NO	Expense date
[expense_type]	ENUM	NO	Maintenance, Utilities, Salary, Insurance, Tax, Repair, Cleaning, Security, Supplies, Marketing, Others
[expense_category]	VARCHAR	NO	Detailed category
[expense_amount]	DECIMAL(12,2)	NO	Amount spent
[currency]	VARCHAR(3)	NO	Currency
[payment_method]	ENUM	NO	Cash, Bank_Transfer, Check, Credit_Card, Digital_Wallet
[payment_status]	ENUM	NO	Pending, Approved, Paid, Rejected
[vendor_name]	VARCHAR	YES	Vendor/supplier name
[vendor_id]	UUID	YES	Link to Vendor table
[invoice_number]	VARCHAR	YES	Invoice number
[invoice_date]	DATE	YES	Invoice date
[due_date]	DATE	YES	Payment due date
[paid_date]	DATE	YES	Actual payment date
[payment_reference]	VARCHAR	YES	Payment reference/receipt
[approved_by]	UUID	YES	Manager who approved
[approval_date]	DATE	YES	Approval date
[department]	VARCHAR	YES	Expense department (Maintenance, Ops, Admin)
[unit_id]	UUID	YES	Associated unit (if applicable)
[budgeted_amount]	DECIMAL(12,2)	YES	Budgeted amount

Column	Type	Nullable	Description
<code>budget_variance</code>	DECIMAL(12,2)	YES	Difference from budget
<code>description</code>	TEXT	YES	Expense description
<code>created_date</code>	TIMESTAMP	NO	Record creation
<code>created_by</code>	UUID	YES	User who created
<code>updated_date</code>	TIMESTAMP	YES	Last update
<code>is_deleted</code>	BOOLEAN	NO	Soft delete flag

19. Building_Revenue

Column	Type	Nullable	Description
<code>id</code>	UUID	NO	Primary key
<code>building_id</code>	UUID	NO	Foreign key to Building
<code>revenue_date</code>	DATE	NO	Revenue date
<code>revenue_type</code>	ENUM	NO	Room_Rent, Room_Rate, Monthly_Lease, Annual_Fee, Parking, Amenity_Fee, Laundry, Food_Service, Event_Venue, Utility_Recharge, Deposit_Refund, Penalty, Others
<code>revenue_source</code>	VARCHAR	YES	Source description
<code>occupant_id</code>	UUID	YES	Foreign key to Occupant
<code>unit_id</code>	UUID	YES	Associated unit
<code>revenue_amount</code>	DECIMAL(12,2)	NO	Amount received
<code>currency</code>	VARCHAR(3)	NO	Currency
<code>payment_method</code>	ENUM	NO	Cash, Bank_Transfer, Check, Credit_Card, Digital_Wallet, Online
<code>payment_status</code>	ENUM	NO	Pending, Received, Overdue, Partial, Cancelled
<code>invoice_number</code>	VARCHAR	YES	Invoice number
<code>invoice_date</code>	DATE	YES	Invoice date

Column	Type	Nullable	Description
due_date	DATE	YES	Payment due date
received_date	DATE	YES	When payment received
payment_reference	VARCHAR	YES	Payment reference/confirmation
reconciliation_status	ENUM	YES	Pending, Reconciled, Discrepancy
lease_id	UUID	YES	Associated lease agreement
period_start_date	DATE	YES	Billing period start
period_end_date	DATE	YES	Billing period end
taxes_applied	DECIMAL(12,2)	YES	Tax amount
net_revenue	DECIMAL(12,2)	YES	Revenue after taxes
description	TEXT	YES	Revenue description
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update

20. Building Deposits

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
occupant_id	UUID	NO	Foreign key to Occupant
unit_id	UUID	NO	Associated unit
deposit_type	ENUM	NO	Security_Deposit, Damage_Deposit, Pet_Deposit, Maintenance_Deposit, Token_Amount
deposit_amount	DECIMAL(12,2)	NO	Deposit amount
currency	VARCHAR(3)	NO	Currency
deposit_date	DATE	NO	Date deposit received

Column	Type	Nullable	Description
deposit_payment_method	ENUM	YES	Cash, Check, Bank_Transfer, Credit_Card
receipt_number	VARCHAR	YES	Deposit receipt number
deposit_status	ENUM	NO	Held, Refunded, Partially_Refunded, Forfeited, Under_Review
held_with	VARCHAR	YES	Where deposit is held (Bank, Escrow, Account)
account_number	VARCHAR	YES	Bank account if applicable
interest_earned	DECIMAL(10,2)	YES	Interest earned on deposit
lease_id	UUID	NO	Associated lease
lease_start_date	DATE	NO	Lease start
lease_end_date	DATE	NO	Lease end
refund_initiated_date	DATE	YES	When refund was initiated
refund_date	DATE	YES	Actual refund date
refund_amount	DECIMAL(12,2)	YES	Amount refunded
deductions_made	DECIMAL(12,2)	YES	Deductions from deposit
deduction_reason	TEXT	YES	Why deductions were made
refund_status	ENUM	YES	Pending, Processed, Completed, Disputed
occupant_bank_details	VARCHAR	YES	Occupant bank for refund
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update

PART 6: MANAGEMENT & CONTACTS (2 Tables)

21. Building_Contacts

Column	Type	Nullable	Description
id	UUID	NO	Primary key

Column	Type	Nullable	Description
<code>building_id</code>	UUID	NO	Foreign key to Building
<code>contact_type</code>	ENUM	NO	Owner, Manager, Caretaker, Maintenance_Head, Security_Head, Emergency_Contact, Vendor, Contractor, Regulatory_Officer, Architect, Others
<code>contact_person_name</code>	VARCHAR	NO	Full name
<code>title_designation</code>	VARCHAR	YES	Job title
<code>organization_name</code>	VARCHAR	YES	Organization (if vendor/contractor)
<code>phone_primary</code>	VARCHAR	NO	Primary phone
<code>phone_secondary</code>	VARCHAR	YES	Secondary phone
<code>email_primary</code>	VARCHAR	YES	Primary email
<code>email_secondary</code>	VARCHAR	YES	Secondary email
<code>address</code>	TEXT	YES	Address
<code>city</code>	VARCHAR	YES	City
<code>country</code>	VARCHAR	YES	Country
<code>postal_code</code>	VARCHAR	YES	Postal code
<code>is_primary_contact</code>	BOOLEAN	YES	If primary contact
<code>contact_status</code>	ENUM	NO	Active, Inactive, Temporary, Archived
<code>availability_hours_start</code>	TIME	YES	Available from (time)
<code>availability_hours_end</code>	TIME	YES	Available until (time)
<code>emergency_contact</code>	BOOLEAN	YES	Is emergency contact
<code>response_time_minutes</code>	INT	YES	Expected response time
<code>service_area</code>	VARCHAR	YES	Area of responsibility
<code>contract_start_date</code>	DATE	YES	Contract start (for vendors)
<code>contract_end_date</code>	DATE	YES	Contract end
<code>notes</code>	TEXT	YES	Additional notes

Column	Type	Nullable	Description
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

22. Building_Staff

Column	Type	Nullable	Description
[id]	UUID	NO	Primary key
[building_id]	UUID	NO	Foreign key to Building
[staff_id]	VARCHAR	NO	Employee ID
[staff_name]	VARCHAR	NO	Full name
[designation]	ENUM	NO	Manager, Assistant_Manager, Maintenance_Engineer, Security_Officer, Housekeeper, Reception, Accountant, Admin_Staff, Cook, Helper, Others
[department]	ENUM	NO	Operations, Maintenance, Security, Housekeeping, Admin, Finance
[employment_type]	ENUM	NO	Full_Time, Part_Time, Contract, Temporary
[date_of_joining]	DATE	NO	Joining date
[date_of_separation]	DATE	YES	Separation date (if applicable)
[employment_status]	ENUM	NO	Active, On_Leave, Suspended, Resigned, Terminated
[salary]	DECIMAL(12,2)	YES	Salary amount
[salary_currency]	VARCHAR(3)	YES	Currency
[salary_frequency]	ENUM	YES	Monthly, Weekly, Daily
[phone]	VARCHAR	NO	Phone number
[email]	VARCHAR	YES	Email address
[address]	TEXT	YES	Address

Column	Type	Nullable	Description
qualification	VARCHAR	YES	Qualifications
certifications	VARCHAR	YES	Relevant certifications
shift_timing_start	TIME	YES	Work shift start
shift_timing_end	TIME	YES	Work shift end
off_days	VARCHAR	YES	Off days (e.g., "Saturday, Sunday")
reporting_to	UUID	YES	Reports to (Manager ID)
contact_in_emergency	BOOLEAN	YES	Can be contacted in emergency
emergency_contact_person	VARCHAR	YES	Emergency contact person
emergency_contact_phone	VARCHAR	YES	Emergency contact phone
bank_account_number	VARCHAR	YES	For salary transfer
bank_name	VARCHAR	YES	Bank name
notes	TEXT	YES	Additional notes
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

PART 7: DOCUMENTS & MEDIA (3 Tables)

23. Building_Documents

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
document_type	ENUM	NO	Deed, License, Certificate, Insurance, Audit, Inspection, Permit, Agreement, Blueprint, Financial_Report, Legal_Document, Compliance_Doc, Others
document_name	VARCHAR	NO	Document name/title

Column	Type	Nullable	Description
document_number	VARCHAR	YES	Reference number
file_path	VARCHAR	NO	Storage path/URL
file_format	VARCHAR	YES	PDF, DOC, DOCX, XLS, XLSX, JPG, PNG, etc.
file_size_mb	DECIMAL(10,2)	YES	File size in MB
issue_date	DATE	YES	Document issuance date
expiry_date	DATE	YES	Document expiry date
valid_status	ENUM	YES	Valid, Expired, About_to_Expire, Invalid
issuing_authority	VARCHAR	YES	Authority/organization
uploaded_date	DATE	NO	Upload date
uploaded_by	UUID	YES	User who uploaded
description	TEXT	YES	Document description
tags	VARCHAR	YES	Tags for easy search (comma separated)
is_confidential	BOOLEAN	YES	Confidential document
access_restricted_to	VARCHAR	YES	User roles who can access
created_date	TIMESTAMP	NO	Record creation
updated_date	TIMESTAMP	YES	Last update
is_deleted	BOOLEAN	NO	Soft delete flag

24. Building_Media

Column	Type	Nullable	Description
id	UUID	NO	Primary key
building_id	UUID	NO	Foreign key to Building
unit_id	UUID	YES	Associated unit
media_type	ENUM	NO	Photo, Video, 360_Image, Virtual_Tour, Document_Scan, Others

Column	Type	Nullable	Description
media_category	ENUM	YES	Exterior, Interior, Unit, Amenity, Damage, Inspection, Event, Others
file_path	VARCHAR	NO	Storage path/URL
file_format	VARCHAR	YES	JPG, PNG, MP4, MOV, PDF, etc.
file_size_mb	DECIMAL(10,2)	YES	File size in MB
'title			