

# APARTMENT COMPLEX FUNCTIONAL DEPENDENCY

APARTMENT

ApartmentNo	NoOfBedrooms	MonthlyRent
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TENANT

TenantID	LeaseID	Name (Fname, LName)	PhoneNumber	Email	SSN
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LEASE

LeaseID	ApartmentID	StartDate	ExpirationDate	Term	Payment(s) (DueDate, PaidDate, Amount)
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AMENITIES

AmenityID	AmenityName	Quantity	Unit	Price	Deposit	Term	FlagType
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AMENITY\_USED

AmenityID	TenantID	StartDate	ReturnDate	ReturnCondition	TransactionID
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MAINTENANCE\_JOB

MaintenanceID	ApartmentID	JobName	JobDescription	DateRequested	DateScheduled	DateCompleted	Category	CompletionTime	Status	Quarter
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APARTMENT

<u>ApartmentNo</u>	NoOfBedrooms	MonthlyRent
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TENANT

<u>TenantID</u>	LeaseID	FName	LName	PhoneNumber	Email	SSN
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LEASE

<u>LeaseID</u>	ApartmentID	StartDate	ExpirationDate	Term	DueDate	PaidDate	Amount
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AMENITIES

<u>AmenityID</u>	AmenityName	Quantity	Unit	Price	Deposit	Term	FlagType
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AMENITY\_USED

<u>TransactionID</u>	<u>AmenityID</u>	<u>TenantID</u>	StartDate	ReturnDate	ReturnCondition
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MAINTENANCE\_JOB

<u>MaintenanceID</u>	ApartmentID	JobName	JobDescription	DateRequested	DateScheduled	DateCompleted	Category	CompletionTime	Status	Quarter
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ApartmentNo → {NoOfBedrooms, MonthlyRent}

TenantID → {LeaseID, FName, Lname, PhoneNumber, Email, SSN}

LeaseID → {ApartmentID, StartDate, ExpirationDate, Term, {DueDate, PaidDate, Amount}}

AmenityID → {AmenityName, Quantity, Unit, Price, Deposit, Term, FlagType}

TransactionID → {AmenityID, TenantID, StartDate, ReturnDate, ReturnCondition}

MaintenanceID → {ApartmentID, JobName, JobDescription, DateRequested, DateScheduled, DateCompleted, Category, CompletionTime, Status, Quarter}

APARTMENT

<u>ApartmentNo</u>	NoOfBedrooms	MonthlyRent
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TENANT

<u>TenantID</u>	<u>LeaseID</u>	FName	LName	PhoneNumber	Email	SSN
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LEASE

<u>LeaseID</u>	<u>ApartmentID</u>	StartDate	ExpirationDate	Term
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PAYMENT

<u>LeaseID</u>	DueDate	PaidDate	Amount
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AMENITIES

<u>AmenityID</u>	AmenityName	Quantity	Unit	Price	Deposit	Term	FlagType
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AMENITY\_USED

<u>TransactionID</u>	<u>AmenityID</u>	<u>TenantID</u>	StartDate	ReturnDate	ReturnCondition
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MAINTENANCE\_JOB

<u>MaintenanceID</u>	<u>ApartmentID</u>	JobName	JobDescription	DateRequested	DateScheduled	DateCompleted	Category	CompletionTime	Status	Quarter
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1NF

2NF would stay the same as no partial dependencies

3NF would stay the same as no transitive dependencies