Table Name: Financial

Explanation of Table Name: Tracks all of the financial data about a rental contract.

Entity that the table represents: Represents the financial entity

How table relates to other tables: Financial table ID is found in Posting table

Evidence of normalization: It is normalized because each field contains a key-value relationship

Column Names Given: Financial(FinancialID, MonthlyRent, MonthlyUtilities, SecurityDeposit, ParkingFee, ApplicationFee)

      Primary key FinancialID references Posting

Key Columns: FinancialID

Foreing Keys: N/A

Explanation of column names present:

      FinancialID: Primary key referencing the PostingID

      MonthlyRent: Integer representing monthly rental cost

      MonthlyUtilities: Integer representing monthly utility cost. Zero if utilities are included

      SecurityDeposit: Integer representing initial security deposit. Zero if security deposit is zero.

Table Name: Posting

Explanation of Table Name: Tracks the basic information about the post that provides the database with the data.

Entity that the table represents: Represents the posting entity.

How table relates to other tables: Address may have multiple postings. PostingID is a primary key in the Financial, Rental, and Amenities tables.

Evidence of normalization: It is normalized because each field contains a key-value relationship

Column Names Given: Posting(PostingID, AddressID, DatePosted)

      Primary key PostingID referenced by all other tables

      Foreing Key AddressID references Address

Key Columns: Primary key PostingID referenced by all other tables

Foreing Keys: Foreing Key AddressID references Address

Explanation of column names present:

      PostingID: Integer. Primary key referencing the PostingID

      AddressID: Integer. Forein Key referencing the Address table

      DatePosted: Date. Represents the date that the posting was listed.

Table Name: Rental

Explanation of Table Name: Represents rental information.

Entity that the table represents: Primary rental information.

How table relates to other tables: Gives primary rental information related (bed, baths, basement, etc.) to a rental posting.

Evidence of normalization: Each rental has a different set of attributes that is dependent on a specific rental posting (the rentalID).
Column Names Given: NumBedrooms
Rental(RentalID, NumBedrooms, NumBathrooms, IsBasement, IsHouse, IsComplex, ContractLength)
      Primary Key RentalID References PostingID
Explanation of column names present:
      RentalID: SpecificID related to the list of core rental properties related to a posting.
      NumBedrooms: Total number of bedrooms in the unit of the posting.
      NumBathrooms: Total number of bedrooms in the unit of the posting.
      IsBasement: Boolean representing whether or not the unit is a basement.
      IsHouse: Boolean representing whether or not the unit is a house.
      IsComplex: Boolean representing whether or not the unit is an apartment.
      ContractLength: Length of the contract.

Table Name: Amenities
Explanation of Table Name: Types of additional perks related to a posting.
Entity that the table represents: Amenities of a unit.
How table relates to other tables: Gives a list of amenities for a specific Facebook posting.
Evidence of normalization: Whether or not something has a specific amenity is dependent on the specific posting.
Column Names Given:
Amenities(AmenitiesID, HasWasherDryer, HasParking, IsFurnished, IsPetFriendly)
      Primary Key AmenitiesID references the PostingID
Explanation of column names present:
      AmenitiesID: SpecificID related to the list of amenities. Ties back to PostingID.
      HasWasherDryer: Boolean representing whether or not the unit has a washer dryer.
      IsFurnished: Boolean representing whether or not the unit comes with furniture.
      IsPetFriendly: Boolean representing whether the tenants are permitted to own pets.

Table Name: Address
Explanation of Table Name: The table is called address because it stores the address of the housing unit.
Entity that the table represents: The table represents the physical location of the housing unit using a standard address
How table relates to other tables: It relates to all of the other tables through the Posting table using the AddressID
Evidence of normalization: It is normalized because each field contains a key-value relationship.
Column Names Given: Address(AddressID, Address, AptNum, ZipCode, City)
Key Columns: Primary key AddressID

Explanation of column names present:

AddressId: A unique ID that describes one address that can link to multiple postings.

Address: The address line of the posting.

AptNum: The dwelling number from the street address.

ZipCode: The zip code of the unit.

City: The City where the unit is located.

Amenities

PK	AmenitiesID
	HasWasherDryer
	HasParking
	IsFurnished
	IsPetFriendly

Posting

PK	PostingID
FK	AddressID
	DatePosted

Financial

PK	FinancialID
	MonthlyRent
	MonthlyUtilities
	SecurityDeposit
	ParkingFee
	ApplicationFee

Address

PK	AddressID
	Address
	AptNum
	ZipCode
	City

Rental

PK	RentalID
	NumBedrooms
	NumBathrooms
	IsBasement
	IsHouse
	IsComplex
	ContractLength