**Memo#2 (AAA Rentals)**

From the data given in Memo: #1

A screenshot of a cell phone

Description generated with very high confidence

A close up of a street

Description generated with high confidence

**Functional dependencies from above analysis:**

{ApartmentID} → {Number}

{ApartmentID} → {NumberRents}

{ApartmentID} → {ComplexID}

{Number} → {NumberRents}

{RenterID} → {NumberRents}

{RenterID} → {Name}

{Name} → {NumberRents}

{Name} → {RenterID}

{StartDate} → {ComplexID}

{PaymentNumber} → {ApartmentID}

{PaymentNumber} → {Number}

{PaymentNumber} → {NumberRents}

{PaymentNumber} → {ComplexID}

{PaymentNumber} → {RenterID}

{PaymentNumber} → {Name}

{PaymentNumber} → {StartDate}

{PaymentNumber} → {Rent}

{PaymentNumber} → {DateDue}

{PaymentNumber} → {DatePaid}

{PaymentNumber} → {Amount}

{DateDue} → {StartDate}

{DateDue} → {ComplexID}

{ProspectNumber} → {ComplexID}

{ProspectNumber} → {Name}

{ProspectNumber} → {Address}

{ProspectNumber} → {Phone}

{ProspectNumber} → {StatusCode} {ProspectNumber}->{ComplexID,Name,Address,Phone,StatusCode}

{Name} → {ComplexID}

{Name} → {ProspectNumber}

{Name} → {Address}

{Name} → {Phone}

{Name} → {StatusCode}

{Address} → {Phone}

{Phone} -> {Address}

**Functional dependencies from Enterprise statements:**

{ApartmentID, RentarID} -> {Rent}

{RenterID, ApartmentID} ->{StartDate}

{Number, ComplexID} -> {ApartmentID}

{ApartmentID} - > {Number, ComplexID}

{ApartmentID,RenterID,ProspectNumber} -> {Rent, StartDate}

{ApartmentID,ProspectNumber} -> {Rent, StartDate}

{RenterID} -> {ProspectNumber}

**Irreducible cover of FD’s:**

{ApartmentID} -> {Number}

{ApartmentID} -> {ComplexID}

{ProspectNumber} -> {Name}

{ProspectNumber} -> {Phone}

{ProspectNumber} -> {StatusCode}

{Phone} -> {Address}

{Address}->{Phone}

{RenterID} -> {Name}

{RenterID} -> {ProspectNumber}

{RenterID,ApartmentID} -> {Rent}

{RenterID,ApartmentID} -> {StartDate}

{RenterID,ApartmentID} -> {NumberRents}

{PaymentNumber} -> {RenterID}

{PaymentNumber} -> {ApartmentID}

{PaymentNumber} -> {Amount}

{PaymentNumber} -> {DateDue}

{PaymentNumber} -> {DatePaid}

**Applying union and eliminating transitive dependencies, we got below relations:**

{ApartmentID} -> {Number, ComplexID}

{ProspectNumber} -> {Name,Phone,StatusCode}

{Phone} -> {Address}

{RenterID} -> {Name, ProspectNumber}

{RenterID,ApartmentID} -> {Rent,StartDate, NumberRents}

{PaymentNumber} -> {RenterID,ApartmentID, Amount, DateDue, DatePaid}