

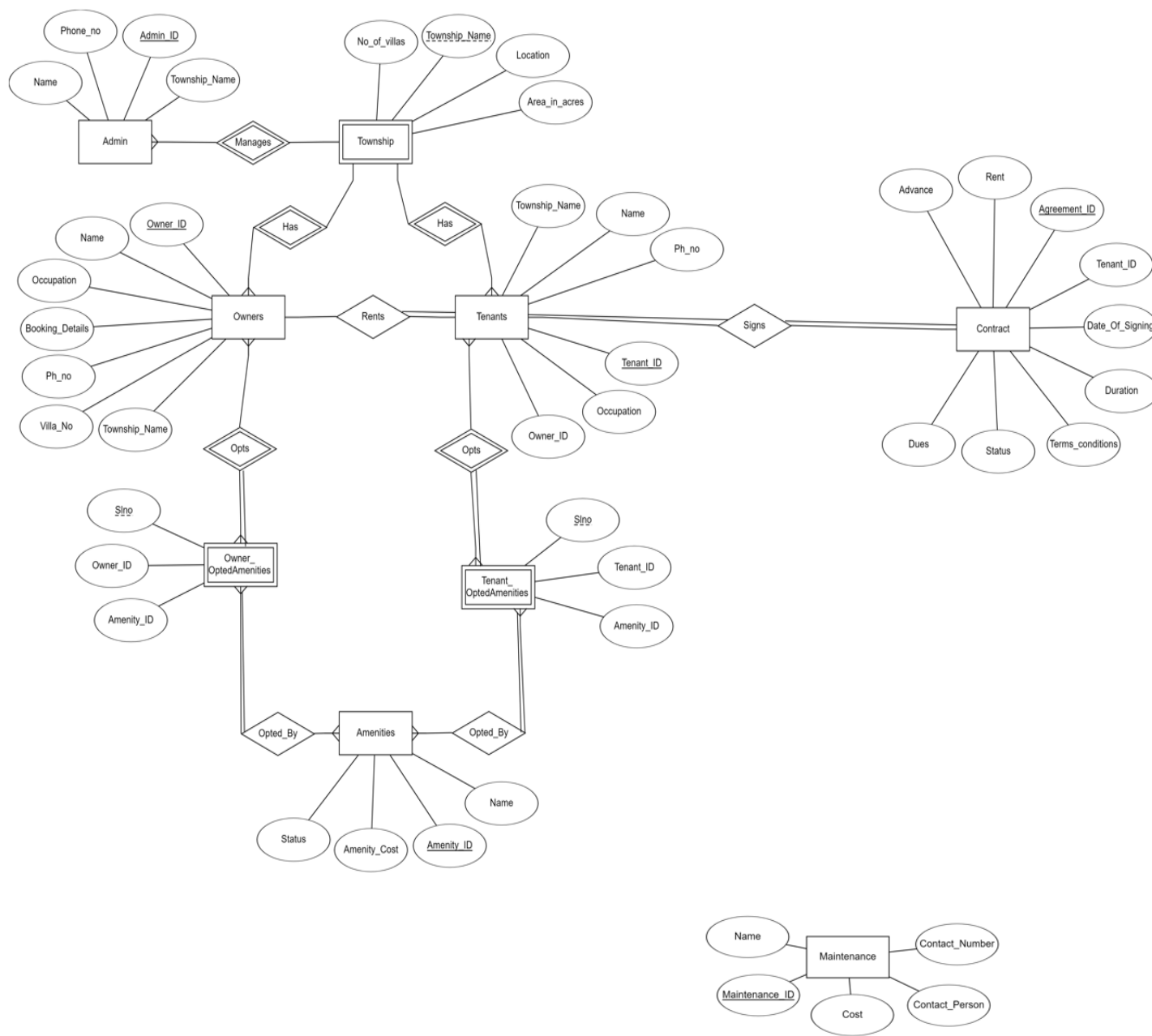
19CSE202- DBMS Project Design Document

(ER Diagram and Tables)

Team Members:

Name	Registration Number
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ER Diagram



Symbolic Representation of Cardinality Ratios



one-to-one relationship (1:1)



many-to-one (m:1)



many-to-many (m:m)

Table Structure

Admin (Admin_ID varchar(10) PRIMARY KEY, Name varchar(20) NOTNULL, Phone_no number(10) UNIQUE, Township_Name varchar(20) NOTNULL)

Township (Township_Name varchar(20) NOTNULL, No_of_Villas number(35) NOTNULL, Location varchar(100) NOTNULL, Area_in_acres number(25))

Owners (Owner_ID varchar(10) PRIMARY KEY, Name varchar(30) NOTNULL, Booking_Details varchar(100) NOTNULL, Occupation varchar(25), Ph_no varchar(10) UNIQUE, Villa_no varchar(10) NOTNULL, Township_Name varchar(20) FOREIGN KEY(Township_Name) REFERENCES Township(Township_Name))

Tenants (Tenant_ID varchar(10) PRIMARY KEY, Name varchar(30) NOTNULL, Ph_no number(10) UNIQUE, Occupation varchar(25), Township_Name REFERENCES Township(Township_Name), Owner_ID REFERENCES Owners(Owner_ID))

Contract (Agreement_ID varchar(10) PRIMARY KEY, Date_of_Signing varchar(20) NOTNULL, Advance varchar(20) , Rent varchar(20) NOTNULL, Duration varchar(20) NOTNULL, Terms_Conditions varchar(150), Status varchar(20), Dues varchar(20), Tenant_ID varchar(10) REFERENCES Tenants(Tenant_ID))

Maintenance (Maintenance_ID varchar(10) PRIMARY KEY, Name varchar(40) NOTNULL, Cost varchar(20) NOTNULL, Contact_Person varchar(30) NOTNULL, Contact_number varchar(8) UNIQUE)

Owner_OptedAmenities (Slno varchar(5) NOTNULL, Owner_ID REFERENCES Owner(Owner_ID), Amenity_ID REFERENCES Amenities(Amenity_ID))

Tenant_OptedAmenities(Slno varchar(5), Tenant_ID REFERENCES Tenants(Tenant_ID), Amenity_ID REFERENCES Amenities(Amenity_ID))

Amenities(Amenity_ID varchar(10) PRIMARY KEY, Name varchar(30) NOTNULL, Amenity_Cost varchar(20) NOTNULL, Status varchar(30))