**Assignment 2 (First Submission )**

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**ABSTRACT**

In this project, as a property management company we need to track the properties that belong to our clients as we have agreement with them. We manage the properties on behalf of the owners. We need to maintain records for the houses at various locations, landlords, tenants, and parking spot allocations as well as necessary maintenance services such as, plumbing, cleaning, shoveling, and air conditioning. We will build a property management system using an SQL database. In this database, we will create tables that contain details for the houses, landlords, parking spots, tenants, and maintenance services. The property management system will be based on the houses. Each house has only one landlord, but it may have more than one tenants. Each maintenance will be recorded. In the maintenance we will maintain the date that maintenance occurred, the company that responsible for the maintenance, and the staff information. We will give a unique number for each maintenance service so that tracking becomes more convenient. Parking spots will be based on the tenant’s requests. A tenant can have maximum one parking spot. After creating database and entering data to the tables, a diagram will be created illustrating the relations between tables by using a data modeling tool.

**BUSINNES RULES**

**• Landlord**

1. A landlord owns one or many houses

2. A landlord home address, phone number, name and surname are maintained.

3. A house must have one landlord.

**• House**

4. A house must belong to must belong to only one landlord.

5. A house features, address and other details maintained.

**• Parking Spot**

6. A tenant can have zero or one parking space.

7. A parking space belongs to one tenant at one time.

• **Tenant**

8. A house can have one or many tenants.

9. A tenant must have one house at one time.

**• Maintenance**

10. Company name, service type, staff information, maintenance date are maintained.

11. A maintenance can be responsible for one or many houses

12. A house can have zero or many maintenance services.

**• Maintenance Company**

13. A company can maintain zero or many houses

14. Each maintenance service must belong to a company.