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Formal Report

DBAS 5201

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Introduction

Morgan Fellows who is the principle contact for the project at a management company, has been directed by the management team and owners to develop a database and user-friendly interface accessed by property managers using smart devices. She requires a system that would scale the database to include any possible future use such as contract terms and property services. According to the scenario, Fellows needs a database that would be secured and limited to only the company, which meant that properties that are available for rent can be accessed by one of the members of the company, Russell’s services. This task can be achieved by creating a database that will allow individuals to keep track of historical data for the property owned.

To help me approach the business problem, I have gathered a lot of information that were questioned by many employees (including myself) and those outside of the company. There were many responses that were asked such as importing the data into an Excel sheet and developing an app like realtor.ca. I analyzed the questions that were asked from other managers and did some further research to meet the requirements that Fellows wanted. With that being said, I put together a whole document that will satisfy Fellows’ needs for the company.

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3NF in Relational Schema

Owner(OwnerID, First Name, Last Name, Phone Number, Email Address, Date of Employment, Consortium)

Renter(RenterID, First Name, Last Name, Phone Number, Email Address)

Property(PropertyID, Property Type, Status)

Lease(LeaseID, OwnerID, RenterID, PropertyID, Description, Start Date, End Date)

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Entity Relationship Diagram

A screenshot of a computer

Description automatically generated

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Functional Dependencies List

OwnerID 🡪 First Name

OwnerID 🡪 Last Name

OwnerID 🡪 Phone Number

OwnerID 🡪 Email Address

OwnerID 🡪 Date of Employment

OwnerID 🡪 Consortium

RenterID 🡪 First Name

RenterID 🡪 Last Name

RenterID 🡪 Phone Number

RenterID 🡪 Email Address

PropertyID 🡪 Property Type

PropertyID 🡪 Status

LeaseID 🡪 OwnerID

LeaseID 🡪 RenterID

LeaseID 🡪 PropertyID

LeaseID 🡪 Description

LeaseID 🡪 Start Date

LeaseID 🡪 End Date

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