

CSI2132 Project Report

CSI2132-C (Databases I)

Winter 2020

Tong Zhao (300037013), Daniel Xu (300030558)

(a) The DBMS and the programming languages that we have used in our implementation of the application:

SQL, Java, HTML, JavaScript, PHP, CSS

(b) A list with the DDLs used to create your database:

```
CREATE TABLE Host(
    HouseNum INTEGER NOT NULL,
    HouserStreet VARCHAR(20),
    HouserCity VARCHAR(20),
    HouserProv VARCHAR(20),
    HostName VARCHAR(20),
    HostEmail VARCHAR(20),
    HostPhoneNumber INTEGER,
    HostPwd INTEGER,
    Host_SSN VARCHAR,
    PRIMARY KEY(Host_SSN)
);
```

```
CREATE TABLE Guests(
    GuestName VARCHAR(20),
    Guest_SSN INTEGER,
    GuestAddress VARCHAR(20),
    GuestEmail VARCHAR(20),
    GuestPhoneNumber VARCHAR(20),
    GuestPwd VARCHAR(20),
    PRIMARY KEY(Guest_SSN)
);
```

```
CREATE TABLE RentalAgreement(
    Signing VARCHAR(20),
    RentalAgreement_ID VARCHAR(20),
    StartDate VARCHAR(20),
    EndDate VARCHAR(20),
    PRIMARY KEY(RentalAgreement_ID)
```

```
);

CREATE TABLE Property(
    PropertyAddress VARCHAR(20),
    PropertyType VARCHAR(20),
    RoomType VARCHAR(20),
    StartDate VARCHAR(20),
    EndDate VARCHAR(20),
    Price INTEGER,
    PaymentType VARCHAR(20),
    Room_Status VARCHAR(20),
    Guest_SSN VARCHAR(20),
    Branch_ID VARCHAR(20),
    Ratings VARCHAR(20),
    Host_SSN VARCHAR(20),
    PRIMARY KEY(PropertyAddress),
    FOREIGN KEY(Host_SSN) REFERENCES Host(Host_SSN),
    FOREIGN KEY(Guest_SSN) REFERENCES Guests(Guest_SSN),
    FOREIGN KEY(Branch_ID) REFERENCES Branches(Branch_ID),
    FOREIGN KEY(Ratings) REFERENCES Reviews(Ratings),
);

CREATE TABLE Branches (
    Branch_ID INTEGER NOT NULL,
    Location VARCHAR(20),
    PRIMARY KEY(Branch_ID)
);

CREATE TABLE Employee(
    Employee_ID INTEGER,
    Information VARCHAR(20),
    Position VARCHAR(20),
    Salary INTEGER,
    EmployeePwd VARCHAR(20),
    PRIMARY KEY(Employee_ID)
);

CREATE TABLE Pricing(
    Pricing_ID INTEGER,
    Price INTEGER,
    NumberOfGuests INTEGER,
    HomeType VARCHAR(20),
    Rules VARCHAR(20),
```

```
Amenities VARCHAR(20),
PRIMARY KEY(Pricing_ID)
);
CREATE TABLE Payment(
Payment_ID INTEGER,
TypeOfPayment VARCHAR(20),
AmoutOfPayment INTEGER,
PaymentStatus VARCHAR(20),
PRIMARY KEY(Payment_ID)
);
CREATE TABLE Reviews(
Ratings INTEGER,
Cleanliness VARCHAR(20),
Review VARCHAR(20),
PropertyAddress VARCHAR(20),
PRIMARY KEY(Ratings, Review),
FOREIGN KEY(PropertyAddress) REFERENCES Property(PropertyAddress)
);
```

(c) Specific steps to guide someone to install your applications

- Install Apache Tomcat and Eclipse EE
- Configure Apache with PHP
- Import the web project called “FirstWebProject” using Eclipse EE