

CSI2132 Project Report

CSI2132-C (Databases I)

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(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