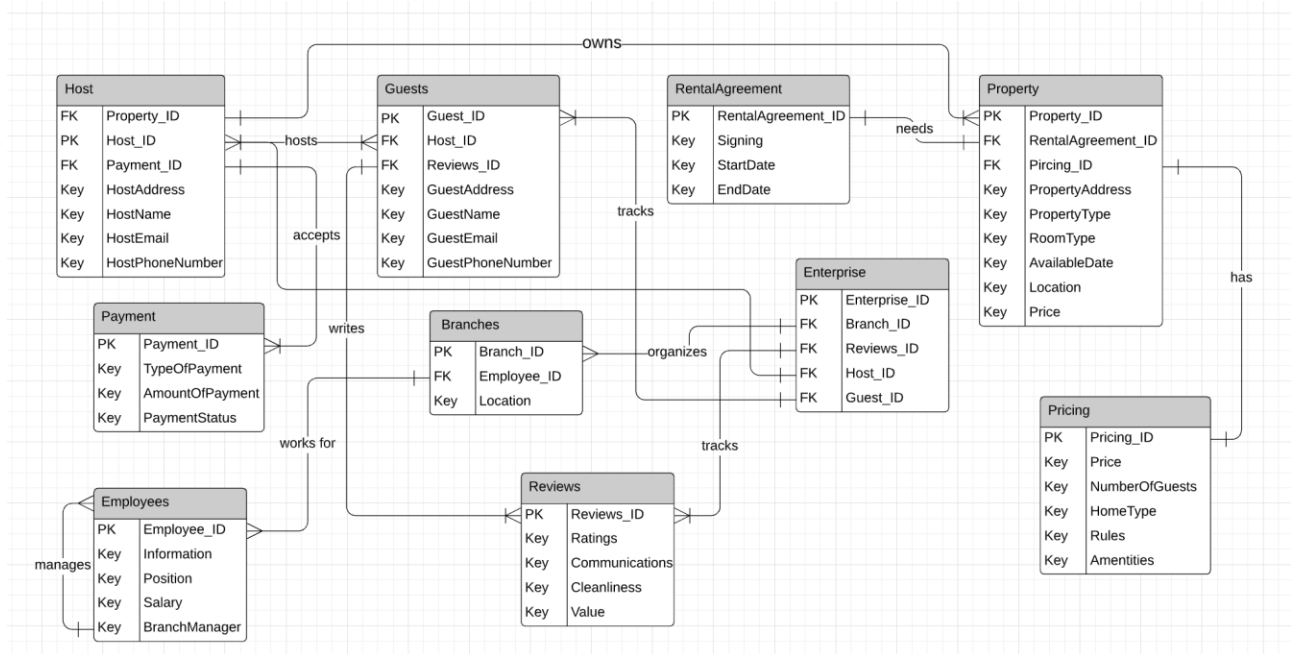


# CSI 2132 Project D1 Report

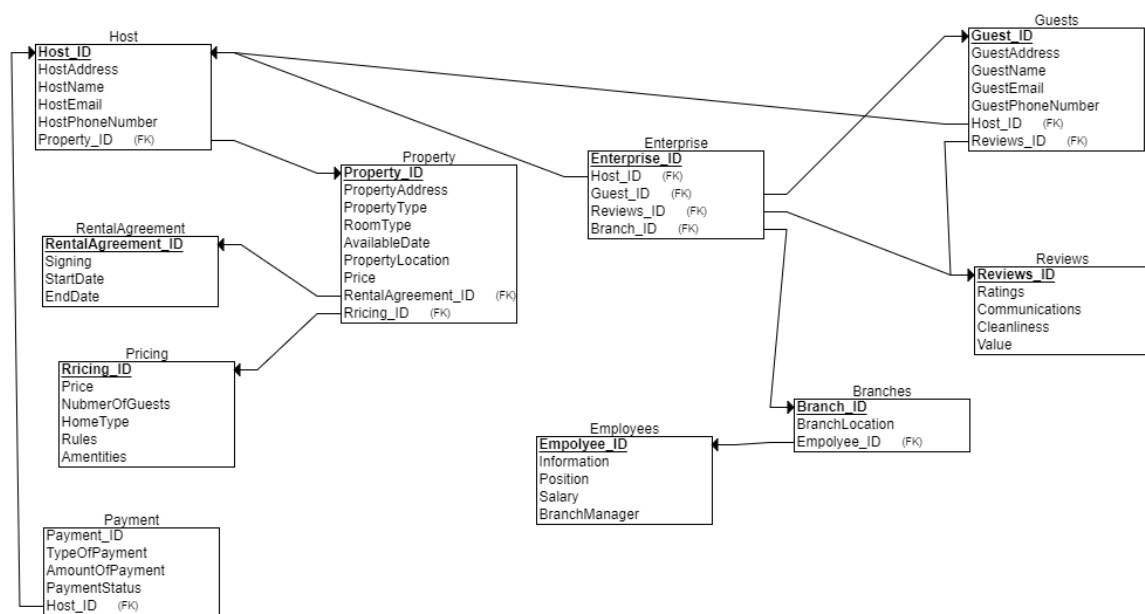
Student 1: Tong Zhao (300037013)

Student 2: Daniel Xu (300030558)

## E-R Diagram:



## Relational Schema:



### Constraints:

```
CREATE TABLE Host (  
    Host_ID INTEGER NOT NULL,  
    HostAddress VARCHAR(20),  
    HostName VARCHAR(20),  
    HostEmail VARCHAR(20),  
    HostPhoneNumber INTEGER(10),  
    FOREIGN KEY(Property_ID),  
    FOREIGN KEY(Payment_ID),  
    PRIMARY KEY(Host_ID)  
);
```

```
CREATE TABLE Guests (  
    Guest_ID INTEGER NOT NULL,  
    GuestAddress VARCHAR(20),  
    GuestName VARCHAR(20),  
    GuestEmail VARCHAR(20),  
    GuestPhoneNumber INTEGER(10),  
    FOREIGN KEY(Host_ID),  
    FOREIGN KEY(Reviews_ID),  
    PRIMARY KEY(Guest_ID)  
);
```

```
CREATE TABLE RentalAgreement (  
    RentalAgreement_ID INTEGER NOT NULL,  
    Signing VARCHAR(20),  
    StartDate DATE,  
    EndDate DATE,  
    PRIMARY KEY(RentalAgreement)  
);
```

```
CREATE TABLE Property (  
    Property_ID INTEGER NOT NULL,  
    PropertyAddress VARCHAR(20),  
    PropertyType VARCHAR(20),  
    RoomType VARCHAR(20),  
    AvailableDate DATE,  
    Location VARCHAR(20),  
    Price INTEGER(10),  
    FOREIGN KEY(RentalAgreement_ID),  
    FOREIGN KEY(Pricing_ID),
```

```

        PRIMARY KEY(Property_ID)
    );

CREATE TABLE Payment (
    Payment_ID INTEGER NOT NULL,
    TypeOfPayment VARCHAR(10),
    AmountOfPayment INTEGER(10),
    PaymentStatus VARCHAR(10),
    PRIMARY KEY(Payment_ID)
);

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

CREATE TABLE Enterprise (
    Enterprise_ID INTEGER NOT NULL,
    FOREIGN KEY(Branch_ID),
    FOREIGN KEY(Reviews_ID),
    FOREIGN KEY(Host_ID),
    FOREIGN KEY(Guest_ID),
    PRIMARY KEY(Enterprise_ID)
);

CREATE TABLE Employees (
    Employee_ID INTEGER NOT NULL,
    Information VARCHAR(20),
    Position VARCHAR(20),
    Salary INTEGER(10),
    BranchManager VARCHAR(20),
    PRIMARY KEY(Employee_ID)
);

CREATE TABLE Reviews (
    Reviews_ID INTEGER NOT NULL,
    Ratings INTEGER(1),
    Communications VARCHAR(20),
    Cleanliness VARCHAR(20),

```

```
Value VARCHAR(20),  
PRIMARY KEY(Reviews_ID)  
);  
  
CREATE TABLE Pricing (  
    Pricing_ID INTEGER NOT NULL,  
    Price INTEGER(10),  
    NumberOfGuests INTEGER(1),  
    HomeType VARCHAR(20),  
    Rules VARCHAR(20),  
    Amenities VARCHAR(20),  
    PRIMARY KEY(Pricing_ID)  
);
```