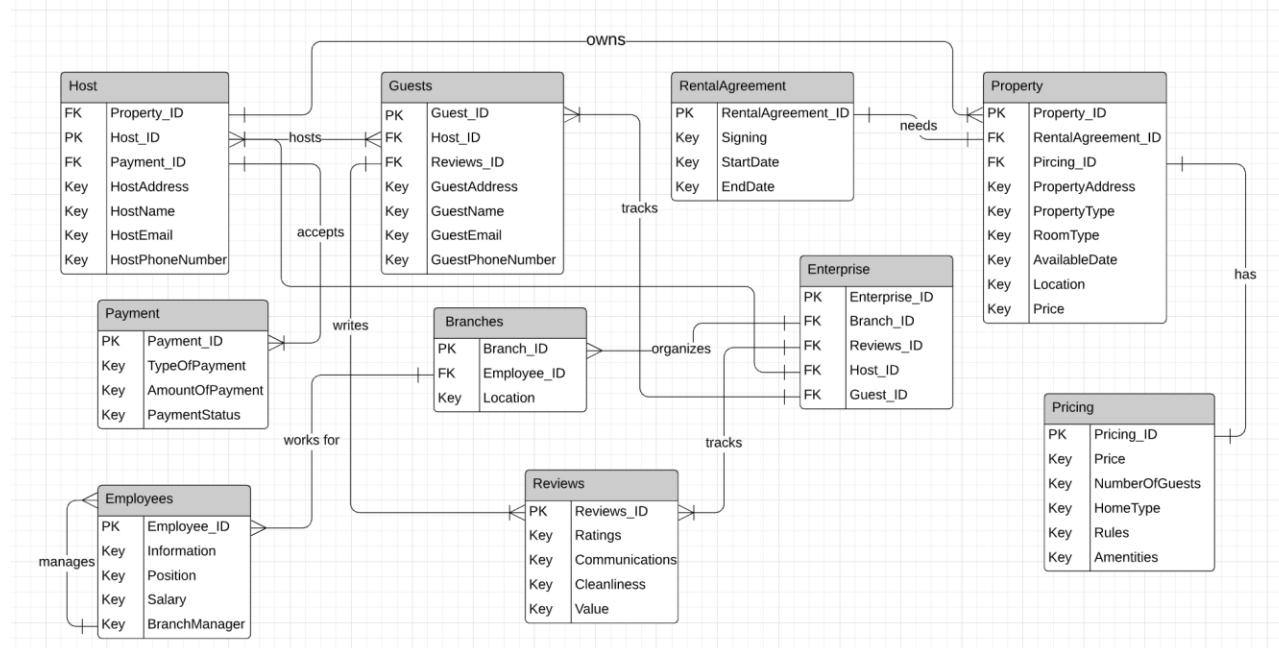


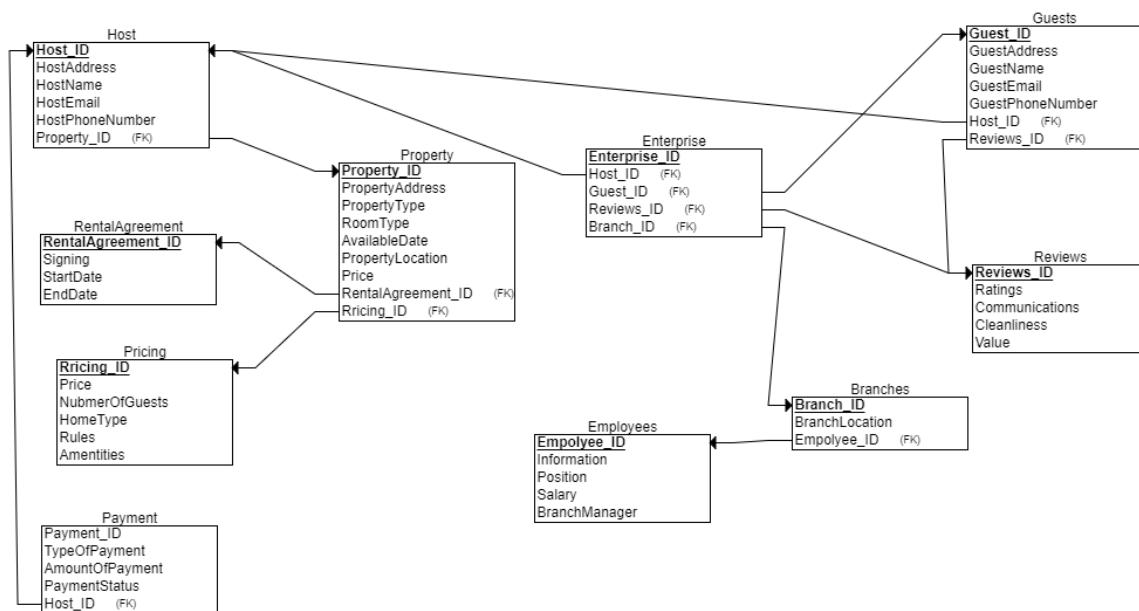
CSI 2132 Project D1 Report

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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)
);
```