

MYSQL DATA DEFINITION LANGUAGE

YardBird LLC

OWNER (OwnerID, OwnerName, OwnerEmail, Type)

PROPERTY (PropertyID, PropertyName, Street, City, State, Zip, OwnerID)

EMPLOYEE (EmployeeID, LastName, FirstName, CellPhone, ExperienceLevel)

SERVICE (PropertyID, EmployeeID, ServiceDate, HoursWorked)

where:

- OwnerID in PROPERTY must exist in OwnerID in OWNER
- PropertyID in SERVICE must exist in PropertyID in PROPERTY
- EmployeeID in SERVICE must exist in EmployeeID in EMPLOYEE

Assume that OwnerID in OWNER, PropertyID in PROPERTY, and EmployeeID in EMPLOYEE are all surrogate keys that start with the number 1 and increment by 1.

Data Definition Language:

```
CREATE TABLE OWNER(  
    OwnerID          Int          NOT NULL AUTO_INCREMENT,  
    OwnerName        Char(50)     NOT NULL,  
    Email            VarChar(100) NULL,  
    Type             Char(12)     NULL,  
    CONSTRAINT      OWNER_PK   PRIMARY KEY(OwnerID)  
);
```

```
CREATE TABLE EMPLOYEE(  
    EmployeeID       Int          NOT NULL AUTO_INCREMENT,  
    LastName          Char(25)     NOT NULL,  
    FirstName         Char(25)     NOT NULL,  
    CellPhone        Char(12)     NOT NULL,  
    ExperienceLevel   Char(15)     NOT NULL,  
    CONSTRAINT      EMPLOYEE_PK PRIMARY KEY(EmployeeID)  
);
```

```
CREATE TABLE PROPERTY(  
    PropertyID       Int          NOT NULL AUTO_INCREMENT,  
    PropertyName     Char(50)     NOT NULL,  
    Street           Char(35)     NOT NULL,  
    City             Char(35)     NOT NULL,  
    State            Char(2)      NOT NULL,
```

```

Zip          Char(10)   NOT NULL,
OwnerID     Int          NOT NULL,
CONSTRAINT PROPERTY_PK  PRIMARY KEY(PropertyID),
CONSTRAINT PROP_OWNER_FK FOREIGN KEY (OwnerID)
REFERENCES OWNER(OwnerID)
ON DELETE NO ACTION
);

```

```

CREATE TABLE SERVICE(
PropertyID  Int          NOT NULL,
EmployeeID  Int          NOT NULL,
ServiceDate DateTime     NOT NULL,
HoursWorked Numeric(4,2) NULL,
CONSTRAINT SERVICE_PK  PRIMARY KEY
(PropertyID, EmployeeID, ServiceDate),
CONSTRAINT SERVICE_PROP_FK FOREIGN KEY (PropertyID)
REFERENCES PROPERTY(PropertyID)
ON DELETE NO ACTION,
CONSTRAINT SERVICE_EMP_FK FOREIGN KEY (EmployeeID)
REFERENCES EMPLOYEE(EmployeeID)
ON DELETE NO ACTION
ON UPDATE CASCADE
);

```

DATA MANIPULATION LANGUAGE

Insert Data:

```
INSERT INTO OWNER (OwnerName, Email, Type) VALUES
('Mary Jones', 'MJones@somewhere.com', 'Individual'),
('DT Enterprises', 'DTE@dte.com', 'Corporation'),
('Sam Douglas', 'SDouglas@somewhere.com', 'Individual'),
('UNY Enterprises', 'UNYE@unye.com', 'Corporation'),
('Doug Samuels', 'DSamuels@somewhere.com', 'Individual');
```

```
INSERT INTO EMPLOYEE (LastName, FirstName, CellPhone,
ExperienceLevel) VALUES
('Smith', 'Sam', '206-254-1234', 'Master'),
('Evanston', 'John', '206-254-2345', 'Senior'),
('Murray', 'Dale', '206-254-3456', 'Junior'),
('Murphy', 'Jerry', '585-545-8765', 'Master'),
('Fontaine', 'Joan', '206-254-4567', 'Senior');
```

```
INSERT INTO PROPERTY(PropertyName, Street, City, State,
Zip, OwnerID) VALUES
('Eastlake Building', '123 Eastlake', 'Seattle', 'WA', '98119', 2),
('Elm St Apts', '4 East Elm', 'Lynwood', 'WA', '98223', 1),
('Jefferson Hill', '42 West 7th St', 'Bellevue', 'WA', '98007', 2),
('Lake View Apts', '1265 32nd Avenue', 'Redmond', 'WA',
'98052', 3),
('Kodak Hieghts Apts', '65 32nd Avenue', 'Rochester', 'NY',
'14604', 4),
('Private Residence', '1456 48th St', 'Bellevue', 'WA', '98007',
1),
('Private Residence', '1567 51st St', 'Bellevue', 'WA', '98007',
3),
('Private Residence', '567 151st St', 'Rochester', 'NY', '14604',
5);
```

```
INSERT INTO SERVICE VALUES(1, 1, '2008-05-05', 4.50);
INSERT INTO SERVICE VALUES(3, 3, '2008-05-08', 4.50);
INSERT INTO SERVICE VALUES(2, 2, '2008-05-08', 2.75);
INSERT INTO SERVICE VALUES(6, 5, '2008-05-10', 2.50);
INSERT INTO SERVICE VALUES(5, 4, '2008-05-12', 7.50);
INSERT INTO SERVICE VALUES(8, 4, '2008-05-15', 2.75);
INSERT INTO SERVICE VALUES(4, 1, '2008-05-19', 3.00);
INSERT INTO SERVICE VALUES(7, 2, '2008-05-19', 2.50);
```