

Create database propertydealers

Branch(branchno, street, city, postcode)

Staff(Staffno, fname, lname, position, Sex, DOB, salary, branchno)

PropertyforRent(propertyNo, street, city, Postcode,Type, rooms,rent,ownerno,staffno, branchno)

Client(CUID, fName, lName, Rent)

PrivateOwner(OUID, fName, lName, address)

1. Insert the data as shown in the above tables
2. Update the street of branchNo 1001 to MG
3. Delete the owner who has fname as 'AMIT'
4. List the clients who pay Rent more than 10000
5. List the name of staff who have salary greater than average salary of all staff.
6. Find the type and rooms of properties in pune
7. Find the name of staffs who work as salesman or saleswomen
8. Find the no. of properties which are of type flat.

tep 1: Create Database and Tables

1. Create Database

sql

Copy code

```
CREATE DATABASE propertydealers;
```

```
USE propertydealers;
```

2. Create Tables

sql

Copy code

```
-- Create Branch table
```

```
CREATE TABLE Branch (
```

```
    branchno INT PRIMARY KEY,
```

```
    street VARCHAR(100) NOT NULL,
```

```
    city VARCHAR(100) NOT NULL,
```

```
    postcode VARCHAR(10) NOT NULL
```

```
);
```

-- Create Staff table

```
CREATE TABLE Staff (  
    Staffno INT PRIMARY KEY,  
    fname VARCHAR(100) NOT NULL,  
    lname VARCHAR(100) NOT NULL,  
    position VARCHAR(50) NOT NULL,  
    Sex CHAR(1) CHECK (Sex IN ('M', 'F')),  
    DOB DATE NOT NULL,  
    salary DECIMAL(10, 2) CHECK (salary >= 0),  
    branchno INT,  
    FOREIGN KEY (branchno) REFERENCES Branch(branchno)  
);
```

-- Create PropertyforRent table

```
CREATE TABLE PropertyforRent (  
    propertyNo INT PRIMARY KEY,  
    street VARCHAR(100) NOT NULL,  
    city VARCHAR(100) NOT NULL,  
    postcode VARCHAR(10) NOT NULL,  
    Type VARCHAR(50) NOT NULL,  
    rooms INT CHECK (rooms > 0),  
    rent DECIMAL(10, 2) CHECK (rent >= 0),  
    ownerno INT,  
    staffno INT,  
    branchno INT,  
    FOREIGN KEY (ownerno) REFERENCES PrivateOwner(OUID),  
    FOREIGN KEY (staffno) REFERENCES Staff(Staffno),  
    FOREIGN KEY (branchno) REFERENCES Branch(branchno)  
);
```

-- Create Client table

```
CREATE TABLE Client (  
    CUID INT PRIMARY KEY,  
    fName VARCHAR(100) NOT NULL,  
    lName VARCHAR(100) NOT NULL,  
    Rent DECIMAL(10, 2) CHECK (Rent >= 0)  
);
```

-- Create PrivateOwner table

```
CREATE TABLE PrivateOwner (  
    OUID INT PRIMARY KEY,  
    fName VARCHAR(100) NOT NULL,  
    lName VARCHAR(100) NOT NULL,  
    address VARCHAR(255) NOT NULL  
);
```

Step 2: Insert Data into Tables

Here's an example of how to insert data into the tables. Adjust the values according to your requirements.

sql

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-- Insert data into Branch table

```
INSERT INTO Branch (branchno, street, city, postcode) VALUES  
(1001, 'Main St', 'Pune', '411041'),  
(1002, 'Elm St', 'Pune', '411042'),  
(1003, 'Oak St', 'Mumbai', '400001');
```

-- Insert data into Staff table

```
INSERT INTO Staff (Staffno, fname, lname, position, Sex, DOB, salary, branchno) VALUES  
(101, 'Amit', 'Patel', 'Manager', 'M', '1985-06-15', 50000, 1001),  
(102, 'Sita', 'Sharma', 'Saleswoman', 'F', '1990-02-20', 40000, 1001),  
(103, 'Rahul', 'Kumar', 'Salesman', 'M', '1988-03-30', 45000, 1002),  
(104, 'Neha', 'Singh', 'Executive', 'F', '1992-11-05', 30000, 1003),
```

```
(105, 'Vijay', 'Joshi', 'Executive', 'M', '1989-07-25', 32000, 1002),  
(106, 'Amit', 'Deshmukh', 'Executive', 'F', '1993-04-12', 28000, 1001);
```

-- Insert data into PrivateOwner table

```
INSERT INTO PrivateOwner (OUID, fName, lName, address) VALUES  
(201, 'Ajay', 'Verma', '1234 Elm St, Pune'),  
(202, 'Amit', 'Ghosh', '5678 Oak St, Mumbai'),  
(203, 'Deepak', 'Sharma', '7890 Pine St, Pune');
```

-- Insert data into PropertyforRent table

```
INSERT INTO PropertyforRent (propertyNo, street, city, postcode, Type, rooms, rent, ownerno,  
staffno, branchno) VALUES  
(301, '1st Ave', 'Pune', '411041', 'Apartment', 2, 15000, 201, 101, 1001),  
(302, '2nd Ave', 'Pune', '411041', 'Flat', 3, 25000, 202, 102, 1001),  
(303, '3rd Ave', 'Mumbai', '400001', 'Flat', 1, 12000, 203, 103, 1002);
```

-- Insert data into Client table

```
INSERT INTO Client (CUID, fName, lName, Rent) VALUES  
(401, 'Aditi', 'Kumar', 15000),  
(402, 'Raj', 'Patel', 25000),  
(403, 'Sneha', 'Ghosh', 12000);
```

Step 3: Perform SQL Operations

1. Update the street of branchNo 1001 to 'MG':

sql

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```
UPDATE Branch SET street = 'MG' WHERE branchno = 1001;
```

2. Delete the owner who has fname as 'Amit':

sql

Copy code

```
DELETE FROM PrivateOwner WHERE fName = 'Amit';
```

3. List the clients who pay Rent more than 10000:

sql

Copy code

```
SELECT * FROM Client WHERE Rent > 10000;
```

- 4. List the names of staff who have a salary greater than the average salary of all staff:**

sql

Copy code

```
SELECT fname, lname FROM Staff WHERE salary > (SELECT AVG(salary) FROM Staff);
```

- 5. Find the type and rooms of properties in Pune:**

sql

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```
SELECT Type, rooms FROM PropertyforRent WHERE city = 'Pune';
```

- 6. Find the names of staff who work as salesman or saleswoman:**

sql

Copy code

```
SELECT fname, lname FROM Staff WHERE position IN ('Salesman', 'Saleswoman');
```

- 7. Find the number of properties which are of type 'Flat':**

sql

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```
SELECT COUNT(*) AS NumberOfFlats FROM PropertyforRent WHERE Type = 'Flat'
```