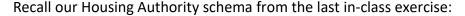
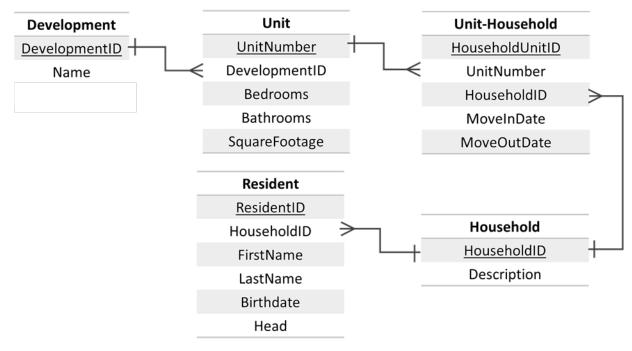
In-class Activity #2: Pen-and-Paper Query Exercise





Assume the database schema is called hdb (for "housing database" – clever!). So, in a query, you'll reference the Development table as hdb.Development.

Create a single SQL query that answers each question below. Make sure you are only returning the information needed to answer the question (don't just use SELECT *).

1) Which housing units (by unit number) have more than two bathrooms?

SELECT UnitNumber FROM hdb.Unit WHERE Bathrooms > 2;

2) What is the birthdate of the resident named Tom Haverford?

SELECT Birthdate
FROM hdb.Resident
WHERE FirstName = 'Tom' AND LastName = 'Haverford';

3) What are the names of all heads of household (list in ascending alphabetical order by last name)?

(HINT: The field "head" can take the value "Yes" or "No")

SELECT FirstName, LastName
FROM hdb.Resident
WHERE Head='Yes'
ORDER BY LastName ASC; (Note: ASC is optional)

4) How many units are larger than 2000 square feet?

SELECT COUNT(*)
FROM hdb.Unit
WHERE SquareFootage > 2000; (Note: do not write 2,000)

5) What is the average square footage of all units in the database?

SELECT AVG(SquareFootage) FROM hdb.Unit;

6) What is the average square footage of units by number of bedrooms (in other words, write a query that computes the average square footage of one bedroom units, two bedroom units, etc.).

SELECT Bedrooms, AVG(SquareFootage) FROM hdb.Unit GROUP BY Bedrooms;

7) What is the smallest number of units in any development?

SELECT COUNT(*)
FROM hdb.Unit
GROUP BY DevelopmentID
ORDER BY COUNT(*) LIMIT 1;

8) How many residents first name start with H?

SELECT COUNT(FirstName)

FROM hdb.Resident

WHERE FirstName LIKE 'H%';