Builder(<u>BID</u>, B_Lname, B_Fname, DOB)

HireInfo(<u>BID*, SID*</u>, S_HireDate)

SubContractor(<u>SID</u>, S_Lname, S_Fname, Salary)

House(<u>HID</u>, H_Name, FinishDate, Price, BID*, NID*)

Neighborhood(<u>NID</u>, N_Name, City)

For the following questions, use the tables above.

1. List all of the builders and their houses. Display the builders' first and last names as one field called "Builder Name" and the house names. Sort the list by the builder's last name. **(12 results)**

```
SELECT CONCAT(b.B_Fname, " ", b.B_Lname) AS "Builder Name",
h.H_Name
FROM Builder b JOIN House h
USING (BID)
ORDER BY b.B_LName;
                              OR
SELECT CONCAT(b.B_Fname, " ", b.B_Lname) AS "Builder Name",
h.H_Name
FROM Builder b, House h
WHERE b.BID = h.BID
ORDER BY b.B_LName;
```

2. List all of the sub contractors and the builders that hire them. Display the sub contractors' last names and the builders' last names along with the salary of each sub contractor. **(11 results)**

```
SELECT s.S_Lname, b.B_Lname, s.Salary
FROM Builder b
JOIN HireInfo h ON b.BID=h.BID
JOIN SubContractor s ON s.SID=h.SID;
                              OR
SELECT s.S_Lname, b.B_Lname, s.Salary
FROM Builder b,HireInfo h, SubContractor s
WHERE b.BID=h.BID AND s.SID=h.SID;
```

3. List all of the builders and houses. Display the last name of the builder and the house's name. There are some builders listed in the database that do not currently have buildings in the database, list those names as well. Sort the list by the builder's last name. **(14 results)**

```
SELECT b.B_Lname, h.H_Name
FROM Builder b LEFT JOIN House h
USING (BID)
ORDER BY b.B_LName;
```

4. Display the first and last name as one field called "Builder Name" of the builder that built the "Simpson" or "Jackson" House. **(2 results)**

```
SELECT CONCAT(b.B_Fname, " ", b.B_Lname) AS "Builder Name",
h.H_Name
FROM Builder b JOIN House h
USING (BID)
WHERE h.H_Name = "Simpson" OR h.H_Name = "Jackson";
```

5. For each of the builder's whose last name starts with an 'S', display the house names of all the houses he/she has built. Also include the builder's full name as one field called "Builder Name". **(2 results)**

```
SELECT CONCAT(b.B_Fname, " ", b.B_Lname) AS "Builder Name",
h.H_Name
FROM Builder b JOIN House h
USING (BID)
WHERE b.B_LName LIKE "S%";
```

6. Display the name of the neighborhood(s) and the city which have a house named "Mapleberry". **(1 result)**

```
SELECT n.N_Name, n.City
FROM Neighborhood n JOIN House h
USING (NID)
WHERE h.H_Name = "Mapleberry";
```