Given the following two tables, answer questions 1-5:

## Names

| Name_id | First_name | Last_name |
|---------|------------|-----------|
| 1       | John       | Smith     |
| 2       | Jane       | Smith     |
| 3       | Jose       | Mendez    |
| 4       | Rachael    | Callaway  |

**Properties** 

| Property_id | House_number | Street_name  | City          | State |
|-------------|--------------|--------------|---------------|-------|
| 1           | 123          | Sunshine St  | Malibu        | CA    |
| 2           | 815          | Easy St      | Mecklenburg   | TN    |
| 3           | 630          | 4th Ave      | El Paso       | TX    |
| 4           | 847          | Riker Circle | San Francisco | CA    |

Write Create Table statements specifying appropriate column data types. Assume these data tables
will store all the names and addresses in a large city.

2. Using the following output, fill in the Create Table statement for a bridge table called PROPERTY\_OWNERS and show its data:

| Owner Name       | Address                             |  |
|------------------|-------------------------------------|--|
| Rachael Callaway | 630 4 <sup>th</sup> Ave, El Paso TX |  |
| Rachael Callaway | 847 Riker Circle, San Francisco CA  |  |
| Jose Mendez      | 815 Easy St, Mecklenburg TN         |  |
| John Smith       | 123 Sunshine St, Malibu CA          |  |
| Jane Smith       | 123 Sunshine St, Malibu CA          |  |

FIRST AND COSTAGNE Controved in nome-id

2

| CREATE TABLE PROPERTY_OWNERS |                   | Nones (nome id         |
|------------------------------|-------------------|------------------------|
| Owner porte                  | nome_id INT       | PEFERENCES!            |
| Address worth                | Property-id INT P | EFERENCES .            |
| )/                           | nelongs to        | lo Lo ber His (bublet) |
| home-id V                    | property-id       |                        |
| [ColumnName?]                | [ColumnName?]     |                        |
| 1                            | 4                 |                        |
| 3                            |                   |                        |

n = nomes

p= properties

3. Using information from questions 1 and 2, write a View that produces the following output:

| Owner Name       | Address                             |  |
|------------------|-------------------------------------|--|
| Rachael Callaway | 630 4 <sup>th</sup> Ave, El Paso TX |  |
| Rachael Callaway | 847 Riker Circle, San Francisco CA  |  |
| Jose Mendez      | 815 Easy St, Mecklenburg TN         |  |
| John Smith       | 123 Sunshine St, Malibu CA          |  |
| Jane Smith       | 123 Sunshine St, Malibu CA          |  |

CREATE VIEW Property\_Ownership AS

(Ovner Nome 1)

SELECT

CONCAT (h. First\_nome 1' 1 h. Lost\_nome) ASTRUMENT

CONCAT (p. Itonse\_number 1' 1, p. street\_nome 1' 1' p. (ity p. Stote)

From

Nomes n

Join

PROPERTY\_OWNERS Y ON n. nome\_id = 1. y. nome\_id

Properties p ON p. y. property\_id = p. property\_id

ORDER BY

n. Tost\_nome;

4. Using information from questions 1 and 2, write a View that produces the following output; )?

| Address                            | Owner            | Owner Count      |
|------------------------------------|------------------|------------------|
| 123 Sunshine St, Malibu CA         | John Smith       | 2                |
| 630 4th Ave, El Paso TX            | Rachael Callaway | Va. 1 is to 1:17 |
| 815 Easy St, Mecklenburg TN        | Jose Mendez      | sabr V1eoL       |
| 847 Riker Circle, San Francisco CA | Rachael Callaway | the displayer    |

CREATE VEEW OWNER COUNT AS SELECT

CONCAT ( P. Itonse-Mumber, ', P. Street-nome, ', P.C. Ty, ', p. Stote, AS "Address", CONCAT ( N. F. is T. Nome, ', N. Iest-nome) As 'buner,

(SELECT COUNT(X)

FROM Property\_OWNERS Y2

WHERE Y2. Property\_id = p. property\_id) As"OVNERCOUNT!

From properties P

PROPERTY\_OWNERS YOU property\_id
OIN TOIN

20 IN Ivames n on yiname-id = niname-id

P. House\_number, p.

p; street-name (it super important)

5. With one of the following languages, (C#, Python, Java, or Visual Basic), write a function that parses the following text string and creates SQL insert statement text that can be used to fill the tables in question 1:

Rachael | Callaway | 847 | Riker Circle | San Francisco | CA

Going assume a property object and Owner Object are already made.

Public chass sql Que

Epublic stotic string more insert stotements (string text

String [] otributes = text. split('1');'

String [n = [p];'

String Stote = [p];'

String Stote = [p];'

String Stote = [p];'

String nomes Ensert = 11" INSERT INTO Nomes .... String properties Insert = \$111

return nomes Insert + "IN" + properties Insert;

(Finish of home

6. What is wrong with the logic in the following PowerBuilder PowerScript function:

public function boolean uf\_check\_errors 🗸 II row, II rows II\_rows = dw\_maintenance.rowcount()\_ if II\_rows < 1 then return false\_ for Il\_row = 1 to Il\_rows 1

> $if f\_isnull(trim(dw\_maintenance.getitemstring(II\_row, 'application\_number')),") = "then followed as a function of the property of the proper$ MessageBox("Empty Application Number Found","Please enter a valid number.", information!, ok!) return true

else end if

return false -

This shouldn't be in the for loop

end function

I Think else Just shouldn't be