**Lesson 9 Activity:**

**Joining Tables with Outer Joins**

For every request, show the code for the query, any code calling it, the results below, and a listing of the records so we can see what happened to the data.

Part 1:

1. Please list out all existing data for the Cars table.

Graphical user interface, application, table

Description automatically generated

1. Please list out all existing data for the CarBuyers table.

Graphical user interface, application

Description automatically generated

1. Please list out all existing data for the CarPurchases table.

Table

Description automatically generated

1. Please try the sample outer join code below:  
   SELECT *Car Buyers’ First, Middle, and Last Name, Email, Mailing Address, Car Purchase ID, Purchase Date, and Purchase Price*   
     
   FROM CarBuyers LEFT JOIN CarPurchases   
    ON CarBuyers. CarBuyerID = CarPurchases. CarBuyerID  
   WHERE PurchDate >= ‘4/1/2019’  
   Graphical user interface, text

   Description automatically generated
2. Then develop a second query without the WHERE Criteria  
   Table

   Description automatically generated
3. Then try: WHERE PurchDate >= ‘4/1/2019’ OR PurchDate IS NULL  
   Table

   Description automatically generated with medium confidence
4. Use a Left Join to find Orphan records in the second table of each query : Use a Left Join between the Cars and CarPurchases tables.

Table

Description automatically generated with medium confidence