

NAME: \_\_\_\_\_

CSE 3330

Homework #4 - 2/13/2020 11:59 PM

Using the schema and data below:

GiftOptions		
ID	Name	Cost
1	Ghirardelli Chocolates	15
2	Roses	100
3	Card	5
4	Hershey Chocolates	10
5	Tulips	50

People	
ID	Name
1	Emily Dickinson
2	Edgar Allan Poe
3	Walt Whitman
4	Maya Angelou
5	William Shakespeare

GiftHistory			
FromPersonID	ToPersonID	GiftID	Year
1	4	3	2019
2	4	3	2019
3	1	1	2018
4	5	5	2018
5	3	2	2019
5	1	3	2019

Provide the data that answers the question **AND** the SQL used to answer the question. Each query should include at least one join. (HINT: Create a database to test your code works and it will give you the data that answers the question)

1. What are the Names of everyone that gave a gift in 2019?  
SELECT distinct Name from People join GiftHistory on ID=FromPersonID  
where Year=2019

Name
Emily Dickinson
Edgar Allan Poe
William Shakespeare

2. List the Names of all the gifts and the Person ID for who received the gift if that given has been given. Not all gifts have been given, but all gift should be displayed in the results.  
select distinct Name, GiftHistory.ToPersonID from giftOptions left join  
GiftHistory on GiftHistory.GiftID=GiftOptions.ID

Name	ToPersonID
Ghirardelli Chocolates	1
Roses	3
Card	1
Card	4
Hershey Chocolates	<i>null</i>
Tulips	5

3. List all the gifts that cost less than 40 and were given by people with an ID that is not equal to 1.  
select Name as Gifts from GiftHistory join GiftOptions on GiftID=ID where  
Cost < 40 group by GiftID having FromPersonID != 1

Gifts
Ghirardelli Chocolates

4. Who has never received a gift?  
select Name from People where People.ID not in (select distinct ToPersonID  
from GiftHistory)

Name
Edgar Allan Poe

5. What gift has never been given?  
 select Name from GiftOptions where ID not in (select distinct GiftID from GiftHistory)

Name
Hershey Chocolates

6. How much did the person with and ID = 5 spend in year = 2019?  
 SELECT SUM(Cost) FROM [GiftHistory] join GiftOptions on  
 GiftHistory.GiftID=GiftOptions.ID where Year=2019 and FromPersonID=5

SUM(Cost)
105

7. How many gifts has Maya Angelou received?  
 select count(\*) from GiftHistory join People on ToPersonID=People.ID group  
 by People.Name having Name="Maya Angelou"

count(*)
2