

Joins- Self, Natural and Joins on more than 2 tables

1. SWIPES (SwipeID, swiperID, swipeeID). Calculate the number of matches. Assume that one person can swipe the other only once. (WAQ directly, no table is provided for this question. Alternatively you can create a table on your own and proceed with this question)
2. Write a query to return employee pairs where salary difference is greater than 6000. If there are pairs which have the same difference in salary, then order by the first employee's Name. The output should look like

Input (Employee: {employeeID, employee_first_name, Salary})

EmployeeID _1	Employee_First_Nam e_1	EmployeeID _2	Employee _First_Name _2	Salary_Differenc e


3. Find the month-wise cumulative sum using self join:  Question on sales
4. WAQ to get the output table using Natural join on PetsTypes and Pets tables.

Table : PetsTypes

```
+-----+-----+
| PetTypeId | PetType |
+-----+-----+
| 1 | Bird |
```

2	Cat
3	Dog
4	Rabbit
+-----+-----+	

Table : Pets

+-----+-----+-----+-----+-----+				
PetId	PetTypeId	OwnerId	PetName	DOB
+-----+-----+-----+-----+-----+				
1	2	3	Fluffy	2020-11-20
2	3	3	Fetch	2019-08-16
3	2	2	Scratch	2018-10-01
4	3	3	Wag	2020-03-15
5	1	1	Tweet	2020-11-28
6	3	4	Fluffy	2020-09-17
7	3	2	Bark	NULL
8	2	4	Meow	NULL
+-----+-----+-----+-----+-----+				

Table : output table

petname	pettype
Fluffy	Cat
Fetch	Dog
Scratch	Cat
Wag	Dog
Tweet	Bird
Fluffy	Dog
Bark	Dog
Meow	Cat

Table : output table

pettypeid	petid	ownerid	petname	dob	pettype
-----+-----+-----+-----+-----+					

2 | 1 | 3 | Fluffy | 2020-11-20 | Cat
3 | 2 | 3 | Fetch | 2019-08-16 | Dog
2 | 3 | 2 | Scratch | 2018-10-01 | Cat
3 | 4 | 3 | Wag | 2020-03-15 | Dog
1 | 5 | 1 | Tweet | 2020-11-28 | Bird
3 | 6 | 4 | Fluffy | 2020-09-17 | Dog
3 | 7 | 2 | Bark | null | Dog
2 | 8 | 4 | Meow | null | Cat

5. We are trying to find paired products that are often purchased together by the same user, such as chips and soft drinks, milk and curd etc..

Find the top paired products names.

From the products table of the Ecommerce database:

[Products.csv](#)

p1_name	p2_name	Number of times Ordered together