

4 Cases

#1

```
MATCH(u:User{FirstName:'Pooja'})-[:Member]->(k:Group)-[:HAS_TAG]->()<-[:HAS_TAG]-(r:Group)WHERE NOT (u)-[:Member]-(r) RETURN u.FirstName as UserName, COLLECT(r.name) as recommendedGroup
```

#2

```
MATCH(u:User{FirstName:'Divyani'})-[:FOLLOWS]->(k:Hashtag)<-[:HAS_TAG]-(r:Group)RETURN u.FirstName as UserName, k.name as hashtag, COLLECT(r.name) as recommendedGroup
```

#3

```
MATCH(u:User{FirstName:'Arya'})-[:ASSOCIATE]-(h:Hashtag)<-[:HAS_TAG]-(t:Group)RETURN u.FirstName AS User, COLLECT(t.name) as recommendedGroup
```

#4

```
MATCH(u:User{FirstName:'Arya'})-[:VIEWED]->(k:Hashtag)<-[:HAS_TAG]->(r:Group) WHERE NOT (u)-[:Member]->(r) RETURN u.FirstName as UserName, COLLECT(r.name) as recommendedGroup
```

#Combined

```
MATCH(u:User)-[:Member]->(k:Group)-[:HAS_TAG]->()<-[:HAS_TAG]-(r:Group)WHERE NOT (u)-[:Member]-(r) RETURN u.FirstName as UserName, COLLECT(r.name) as recommendedGroup
UNION
MATCH(u:User)-[:FOLLOWS]->(k:Hashtag)<-[:HAS_TAG]-(r:Group)RETURN u.FirstName as UserName, COLLECT(r.name) as recommendedGroup
UNION
MATCH(u:User)-[:ASSOCIATE]-(h:Hashtag)<-[:HAS_TAG]-(t:Group)RETURN u.FirstName AS User, COLLECT(t.name) as recommendedGroup
```

```
UNION
MATCH(u:User)-[:VIEWED]->(k:Hashtag)<-[:HAS_TAG]->(r:Group) WHERE
NOT(u)-[:Member]->(r) RETURN u.FirstName as UserName, COLLECT(r.name)
as recommendedGroup
```

Idea 2

```
MATCH(t:User{FirstName:'Vyshnavi'})-[:Owner]->(r:Group), (r)-[:HAS_TAG
]->(h:Hashtag), (u:User)-[:FOLLOWS]->(h) RETURN r.name as
GroupName, COLLECT(u.FirstName) as UserName
```