Answers

MOre SQL queries.2.11.20

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Editor's Database

Name(id,name)

Email(id,email)

Papers(narid, authorid, title, year, keywords, decision)

Reviewers(narid, reviewerid, agree_decline, days, rating, year)

Table names are **bold**. **Primary keys** are bold. *Foreign keys* are shown in *italics* and match the same field in another table unless specified.

Notes:

- 1. Name and Email share the same id for the same person
- 2. name is 'last name, first name'
- 3. note that some ids will have more than one name and/or more than one email
- 4. authorid is corresponding author (one per paper) and refers to id in both Name and Email tables
- 5. reviewerid refers to id in both Name and Email tables
- 6. days is number of days to do review, rating is in {0 (low), 1, 2, 3 (high)}

Questions

1. Find email addresses of all persons whose first name ends in 'n' (name, email). Again, but last name ends in 'n'.

```
#names are stored as "last, first"
#first name ending in n
select name, email
from Name join Email using (id)
where name like "%n"
#or
where name regexp "n$"
#last name ending in n
select name, email
from Email join Name using (id)
where name like "%n,%"
#or
select name, email
from Email join Name using (id)
where name regexp "n,"
```

2. Find names of all persons whose email contains 'gmail' (name, email). Again, but doesn't contain 'gmail'.

```
#email contains 'gmail'
```

```
select name, email
from Name join Email using(id)
where email like "%gmail%"
#or
where email regexp "gmail"
#email doesn't contain gmail
#use 'not'
select name, email
from Name join Email using(id)
where email not regexp "gmail"
#or
where email not like "%gmail%"
3. How many unique ids are there in email, in name?
#how many distinct ids in the name table
select count(distinct id)
from Name
```

4. List all papers and authors for year 2014 (narid, title, name) is ascending order by narid. Your solution will probably give "duplicate" entries. Why? How can they be eliminated?

#papers and correponding authors for 2014
#repeats the same paper if the author has more than one name in the Name table

```
select narid, title, name
from Name join Papers on id=authorid
where year = 2014
order by narid asc
#a query that eliminates duplicates in the Names table
select id, min(name)
from Name
group by id
order by id asc
#first query with substitution for Names table with the query that eliminates duplicates
#the query in the parenthesis is called a "derived table" and must be given a name
#here it's called "x"
select narid, title, minname
from Papers join
    (select id, min(name) as minname
     from Name
     group by id
     order by id asc) as x on id=authorid
where year = 2014
order by narid asc
```

5. Find all reviewers on papers that have keywords containing 'structure' (narid, title, name, keywords). Sort by narid ascending. Advanced: how might we get the total number of review requests per individual?

```
#papers and reviewers for keyword "structure"
select narid, title, name, agree_decline, keywords
from Reviewers join Papers using(narid) join Name on id=reviewerid
where keywords regexp "structure"
order by narid asc
```

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