**Queries**

/\* Problem 4

assumptions:

-Total votes only refers to total votes on a question not the votes the questions answers

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/\* Part A \*/

select question.title, question.t\_name, question.p\_date,

question.u\_name, votes.total\_votes, ans.total\_ans from

(select p.title, t.t\_name, p.p\_date, u.u\_name, p.p\_id

from users u

join posts p use index(title) on u.u\_id = p.u\_id

left outer join posttags pt on p.p\_id = pt.p\_id

left outer join tags t on t.t\_id = pt.t\_id

where p.p\_type = 1 and p.accepted\_id is null) as question

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as votes on votes.p\_id = question.p\_id

left outer join

(select parent\_id, count(p\_id) as total\_ans from posts

where p\_type = 2

group by parent\_id) as ans

on question.p\_id = ans.parent\_id;

/\* Part A i)

Note: where condition is set for questions with 'java' tags

please change the condition to get data for other tags

\*/

select question.title,question.t\_name, question.p\_date,

question.u\_name, votes.total\_votes, ans.total\_ans from

(select p.title, t.t\_name, p.p\_date, u.u\_name, p.p\_id

from users u join posts p on u.u\_id = p.u\_id

left outer join posttags pt on p.p\_id = pt.p\_id

left outer join tags t on t.t\_id = pt.t\_id

where p.p\_type = 1 and p.accepted\_id is null

and t.t\_name = 'java') as question

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as votes on votes.p\_id = question.p\_id

left outer join

(select parent\_id, count(p\_id) as total\_ans from posts

where p\_type = 2

group by parent\_id) as ans

on question.p\_id = ans.parent\_id;

/\* Part A ii)\*/

select question.title,question.t\_name, question.p\_date,

question.u\_name, votes.total\_votes, ans.total\_ans from

(select p.title, t.t\_name, p.p\_date, u.u\_name, p.p\_id

from users u join posts p use index(title) on u.u\_id = p.u\_id

left outer join posttags pt on p.p\_id = pt.p\_id

left outer join tags t on t.t\_id = pt.t\_id

where p.p\_type = 1 and p.accepted\_id is null) as question

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as votes on votes.p\_id = question.p\_id

left outer join

(select parent\_id, count(p\_id) as total\_ans from posts

where p\_type = 2

group by parent\_id) as ans

on question.p\_id = ans.parent\_id

order by question.p\_date desc;

/\* Part A iii)\*/

select question.title,question.t\_name, question.p\_date,

question.u\_name, votes.total\_votes, ans.total\_ans from

(select p.title, t.t\_name, p.p\_date, u.u\_name, p.p\_id

from users u join posts p on u.u\_id = p.u\_id

left outer join posttags pt on p.p\_id = pt.p\_id

left outer join tags t on t.t\_id = pt.t\_id

where p.p\_type = 1 and p.accepted\_id is null) as question

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as votes on votes.p\_id = question.p\_id

left outer join

(select parent\_id, count(p\_id) as total\_ans from posts

where p\_type = 2

group by parent\_id) as ans

on question.p\_id = ans.parent\_id

order by votes.total\_votes desc;

/\*Part B

This query is retrieves the requested data of p\_id = 5916. please change the

p\_id to get information for another post.

\*/

select question.title as question\_title, question.p\_body as question\_body,

question.p\_date as question\_post\_date, question.u\_name as posted\_user, votes.total\_votes as question\_votes,

favs.total\_favs as question\_favs, c.text as comments, ans.p\_body as answers, ans\_vote.total\_votes as answer\_votes,

c2.text as answer\_comments

from

(select p.title, p.p\_body, p.p\_id, p.p\_date, u.u\_name

from users u join posts p on u.u\_id = p.u\_id

where p\_type = 1 and p.p\_id = 5916) as question

left outer join (select p.p\_id, count(f.p\_id) as total\_favs

from posts p join favs f on f.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as favs on favs.p\_id = question.p\_id

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 1

group by p.p\_id) as votes on votes.p\_id = question.p\_id

left outer join comments c on c.p\_id = question.p\_id

left outer join (select title, p\_id, parent\_id, p\_body from posts where p\_type = 2) as ans

on question.p\_id = ans.parent\_id

left outer join (select p.p\_id, count(v.p\_id) as total\_votes

from posts p join votes v on v.p\_id = p.p\_id where p\_type = 2

group by p.p\_id) as ans\_vote on ans\_vote.p\_id = ans.p\_id

left outer join comments c2 on c2.p\_id = ans.p\_id;