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**Group name: Intellectuals**

**Project Name: Find Yourself A Mentor**

**Postgresql ftns and procedures and scripts**

**Functions:**

1. Used for a check constraints

so that a mentor doesn’t actually make himself his mentee (i.e.: accidently selects his own reg number)

create or replace function is\_mentor(reg integer)

returns integer as $reg1$

declare

r integer;

begin

select reg\_no into r from main\_web\_gikians where (reg\_no = reg and role = 'mentor');

return r;

end;

$reg1$ language plpgsql;

1. Used for a check constraints

so that a mentee doesn’t actually make himself his mentor(i.e.: accidently selects his own reg number)

create or replace function is\_mentee(reg integer)

returns integer as $reg1$

declare

r integer;

begin

select reg\_no into r from main\_web\_gikians where (reg\_no = reg and role = 'mentee');

return r;

end;

$reg1$ language plpgsql;

1. ftn used in a trigger for updating mentees of mentor and mentor of mentees tables

create or replace function update\_mentor\_and\_mentees\_tables()

returns trigger AS

$$

declare

begin

if(new.role = 'mentor') then

insert into main\_web\_mentor (reg\_no\_id,year) values(new.reg\_no,new.year);

elseif(new.role = 'mentee' ) then

insert into main\_web\_mentees (reg\_id,year) values(new.reg\_no,new.year);

end if;

return NULL;

end;

$$

language plpgsql;

1. when a new signup is done some of the details are fetched from auth user table to gikians table

create or replace function update\_gikian\_table()

returns trigger AS

$$

declare

begin

if(new.is\_superuser = false ) then

update main\_web\_gikians set hash = new.password where username = new.username;

end if;

return NULL;

end;

$$

language plpgsql;

**TRIGGERS**

1. trigger for updating the mentor table

create or replace trigger mentor\_triger

after insert on main\_web\_gikians

for each row

execute function update\_mentor\_and\_mentees\_tables ();

1. when a new signup is done some of the details are fetched from auth user table to gikians table

create or replace trigger updating\_gikian\_from\_auth\_table

after insert on auth\_user

for each row

execute function update\_gikian\_table ();

//currently this trigger is not being used

drop trigger updating\_gikian\_from\_auth\_table on auth\_user;

**CONSTRAINTS**

1. checking mentor ids and its reg number accooding to the roles assigned to them in mentees table:

alter table main\_web\_mentees add constraint mentees\_checks

check(

is\_mentor(mentor\_id\_id) = mentor\_id\_id

and is\_mentee(reg\_id) = reg\_id

);

**ALTER**

1. altering sequencesl

alter sequence sequence\_name restart with 0;

**views**

1. viewing mentors all data

create or replace view v\_mentors\_all\_data as

select main\_web\_gikians.reg\_no as "gikians\_reg\_no",main\_web\_gikians.role,

main\_web\_gikians.name,main\_web\_gikians.year,main\_web\_gikians.faculty,

main\_web\_giki\_socities.socities,

main\_web\_mentor\_skills.skills,

main\_web\_mentor\_best\_courses.best\_courses,

main\_web\_giki\_teams.teams

from main\_web\_gikians, main\_web\_mentor\_skills, main\_web\_giki\_teams,

main\_web\_mentor\_best\_courses, main\_web\_giki\_socities,main\_web\_mentor

where (main\_web\_gikians.role = 'mentor' and

(

main\_web\_mentor.reg\_no\_id = main\_web\_mentor\_best\_courses.reg\_id and

main\_web\_mentor.reg\_no\_id = main\_web\_mentor\_skills.reg\_id and

main\_web\_mentor.reg\_no\_id = main\_web\_giki\_teams.reg\_no\_id and

main\_web\_mentor.reg\_no\_id = main\_web\_giki\_socities.reg\_no\_id and

main\_web\_mentor.reg\_no\_id = main\_web\_mentor.reg\_no\_id

)) order by main\_web\_gikians.name;

1. viewing mentees all data:

create or replace view v\_mentees\_all\_data as

select main\_web\_gikians.reg\_no as "gikians\_reg\_no",main\_web\_gikians.role,

main\_web\_gikians.name,main\_web\_gikians.year,main\_web\_gikians.faculty,

main\_web\_giki\_socities.socities,

main\_web\_mentee\_interests.interests,

main\_web\_mentees\_weak\_courses.weak\_courses,

main\_web\_giki\_teams.teams

from main\_web\_gikians, main\_web\_mentee\_interests, main\_web\_giki\_teams,

main\_web\_mentees\_weak\_courses, main\_web\_giki\_socities,main\_web\_mentees

where (main\_web\_gikians.role = 'mentee' and

(

main\_web\_gikians.reg\_no = main\_web\_mentees\_weak\_courses.reg\_id and

main\_web\_gikians.reg\_no = main\_web\_mentee\_interests.reg\_id and

main\_web\_gikians.reg\_no = main\_web\_giki\_teams.reg\_no\_id and

main\_web\_gikians.reg\_no = main\_web\_giki\_socities.reg\_no\_id

))

order by main\_web\_gikians.name;