

Database Systems, CSCI 4380-01

Homework # 6 Answers

Answers.

```
drop function hw6() ;

create function hw6() returns void AS $$
DECLARE
    num INTEGER ;
BEGIN
alter table events add sport varchar(255);
alter table events add discipline varchar(255);
alter table events add stype varchar(255);
alter table events add category varchar(255);
update events
set sport = (select sp.name from sports sp where sp.id = events.sid),
discipline = (select sp.discipline from sports sp where sp.id = events.sid),
stype = (select sp.stype from sports sp where sp.id = events.sid),
category = (select wec.etype from winter_eventcategories wec where wec.eid = events.id);

CREATE table events_tmp2 as
Select
    e.id,
    e.name,
    e.discipline,
    e.etype
From
    events e,
    events e2
Where
    e.name = e2.name
    and e.discipline = e2.discipline
    and e.etype = e2.etype
    and e.id <> e2.id;

alter table events_tmp2 add category varchar(255);

update events_tmp2
set category = (select wec.etype from winter_eventcategories wec where wec.eid =
    events_tmp2.id);
DELETE FROM events_tmp2
WHERE category is NULL;
DELETE FROM events_tmp2
WHERE id NOT IN (SELECT min(id)
    FROM events_tmp2
    GROUP BY name, discipline, etype);
```

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```
update events
set category = (select et2.category from events_tmp2 et2 where et2.name = events.name
               and et2.discipline = events.discipline and et2.etype = events.etype)
from events_tmp2 et2
where
et2.name = events.name and et2.discipline = events.discipline and et2.etype =
events.etype;

DROP TABLE winter_eventcategories;

CREATE table events_tmp as
SELECT Min(id), name, discipline, etype from events
GROUP BY name, discipline, etype;

update summer_medals
set eid = et.min
from
    events_tmp et,
    events e
where
    eid > et.min
    and eid = e.id
    and et.name = e.name
    and et.discipline = e.discipline
    and et.etype = e.etype;

update winter_medals
set eid = et.min
from
    events_tmp et,
    events e
where
    eid > et.min
    and eid = e.id
    and et.name = e.name
    and et.discipline = e.discipline
    and et.etype = e.etype;

Delete from events
where not exists (
select
    NULL
from
    events_tmp
where
    events.name = events_tmp.name
    and events.discipline = events_tmp.discipline
    and events.etype = events_tmp.etype
    and events.id = events_tmp.min);
DROP TABLE events_tmp;
DROP TABLE events_tmp2;
END ;
$$ LANGUAGE plpgsql ;
```
