My olympics database include following tables:

**athlete\_name:**

*(First I derived the name info from the athlete\_events.csv, then derived the last name, first name, and middle name info into the table athlete\_name)*

athlete\_fullname:

select id, trim(leading from "Name")

from athlete

athlete\_name:

select substring("name", '^\s\*\S\*') as FName, substring("name", '\S\*$') as LName,

substring("name", '\s\S\*\s') as MName

from athlete\_fullname

select id, lower(fname) as fname, lower(lname) as lname, lower(mname) as mname

from athlete\_name

**event:**

*(I derived the event name and sport category in the athlete\_events.csv)*

select distinct sport, "Event" as eventName

from athlete

**game:**

*(I derived the year, season and city info in the athlete\_event.csv into a new table called game, then add the identity column in game as the gameid. Since there are other names used for city between the athlete\_csv.csv and noc.csv, I added the cityalias column in game table.)*

select distinct "Year", season, city

from athlete

order by "Year"

**competition:**

*(First I combined the athlete\_events.csv and game table in order to add the gameid info in the competition table. Then I derived the athleteid, event, and medal info into competition table. This table is for recording result of each event in every game)*

select id as athleteId, gameid, "Event" as eventName, medal

from athlete a, game g

where a."Year" = g."Year" and a.city = g.city and a.season = g.season

**medal:**

*(I first combine all the medal info in the winter.csv and summer.csv into one table. Then decompose the name column into first name and last name)*

select \* from winter

union all

select \* from summer

select gamesid, "Event" as eventName, sport, discipline, split\_part(lower(athlete), ', ', 1) as lastN,

split\_part(lower(athlete), ', ', 2) as firstN, country, gender, medal

from medal m, game g

where (m.city = g.city or m.city = g.cityalias)

and m."Year" = g."Year"

**athlete:**

*(select the athleteId, gender, and nocid info from the athlete\_event.csv into one table)*

select a.id as athleteId, sex, noc

from athlete