create schema CommonWealth\_Games;

set search\_path to CommonWealth\_Games;

create table Summit(

year integer,

type varchar(25) not null,

country varchar(25) not null,

city varchar(25) not null,

primary key(year)

);

create table event(

event\_id integer,

name varchar(25) not null,

team\_size integer not null,

max\_comp\_teams\_per\_round integer not null,

number\_of\_rounds integer not null,

primary key(event\_id)

);

create table held\_in(

year integer,

event\_id integer,

primary key(year,event\_id),

FOREIGN KEY (year) REFERENCES Summit(year)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (event\_id) REFERENCES event(event\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table athlete(

athlete\_id integer,

name varchar(25) not null,

gender char not null,

dob date not null,

nationality varchar(25) not null,

contact\_no numeric(10,0) not null,

height integer not null,

weight integer not null,

primary key(athlete\_id)

);

create table coach(

coach\_id integer,

name varchar(25) not null,

gender char not null,

dob date not null,

nationality varchar(25) not null,

contact\_no numeric(10,0) not null,

primary key(coach\_id)

);

create table team(

team\_id integer,

team\_size integer not null,

country varchar(25) not null,

captain\_id integer not null,

coach\_id integer not null,

primary key(team\_id),

FOREIGN KEY (captain\_id) REFERENCES athlete(athlete\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (coach\_id) REFERENCES coach(coach\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table belongs\_to(

team\_id integer,

athlete\_id integer,

primary key(team\_id,athlete\_id),

FOREIGN KEY (team\_id) REFERENCES team(team\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (athlete\_id) REFERENCES athlete(athlete\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table referee(

referee\_id integer,

name varchar(25) not null,

gender char not null,

dob date not null,

nationality varchar(25) not null,

contact\_no numeric(10,0) not null,

primary key(referee\_id)

);

create table round(

year integer,

event\_id integer,

round\_no integer,

sub\_round\_no integer,

time\_stamp timestamp not null,

location varchar(25) not null,

referee\_id integer not null,

number\_of\_teams\_qualified integer not null,

primary key(year,event\_id,round\_no,sub\_round\_no),

FOREIGN KEY (year,event\_id) REFERENCES held\_in(year,event\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (referee\_id) REFERENCES referee(referee\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table result(

record\_id integer,

result integer not null,

primary key(record\_id)

);

create table registered\_in(

year integer,

event\_id integer,

round\_no integer,

sub\_round\_no integer,

team\_id integer,

record\_id integer unique default null,

primary key(year,event\_id,round\_no,team\_id),

FOREIGN KEY (team\_id) REFERENCES team(team\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (record\_id) REFERENCES result(record\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (year,event\_id,round\_no,sub\_round\_no) REFERENCES round(year,event\_id,round\_no,sub\_round\_no)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table badminton(

record\_id integer,

sets integer not null,

points integer not null,

primary key (record\_id,sets),

FOREIGN KEY (record\_id) REFERENCES result(record\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table wrestling(

record\_id integer,

points integer not null,

primary key (record\_id),

FOREIGN KEY (record\_id) REFERENCES result(record\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table swimming(

record\_id integer,

time\_taken time not null,

primary key (record\_id),

FOREIGN KEY (record\_id) REFERENCES result(record\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);

create table basketball(

record\_id integer,

athlete\_id integer not null,

number\_of\_basket integer not null,

primary key (record\_id,athlete\_id),

FOREIGN KEY (record\_id) REFERENCES result(record\_id)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (athlete\_id) REFERENCES athlete(athlete\_id)

ON DELETE CASCADE ON UPDATE CASCADE

);