Beginner

1- Give the list of female athlete winner of india

select * from athlete where gender ='F' and country_abbrev ='IND';

2- Give the details of female athlete of thailand participated in individual discipline and obtained gold medal .

select * from athlete natural join result where type ='Individual' and medal_type ='Gold' and gender ='F' and country_abbrev='THA' ;

Intermediate

3- List all the athlete palyed many discipline in any sport.

select distinct   fname,lname ,count ,sport_id ,country_abbrev   from ((select fname,lname,count(fname) as count

from athlete natural join result group by fname,lname)as r1 natural join (select * from athlete natural join result)

as r2) where count>1 order by count desc

4-list all the country whose athlete participated in more than 4 sports.

select country_name,Total_sports   from (select country_name,count(sport_id) as Total_sports from athlete natural join country natural join sport group by country_name)as r   where Total_sports>4

5- List all the athlete who has participated in the disciplines of wrestling.

select athlete_id,fname,lname,sport_name ,discipline_name,medal_type from result

natural join discipline natural join sport natural join athlete where

(sport_name='Wrestling')

6- List the countries whose athlete participated in individual events.

select country_name,type,count(medal_type) as medals   from result natural join athlete

natural join country where (type='Individual') group by type,country_name order by medals

Advanced

7-list the   country whose maximum difference b/w gold and silver is greter then or equal to 2.

select distinct r1.country_abbrev,go_count,sil_count,abs(go_count-sil_count) as difference from(

(select athlete.country_abbrev,medal_type,count(medal_type) as go_count from athlete

natural join result natural join discipline natural join

sport group by country_abbrev,medal_type having(medal_type='Gold')) as r1 join

(select athlete.country_abbrev,medal_type,count(medal_type) as sil_count from athlete

natural join result natural join discipline natural join

sport group by country_abbrev,medal_type having(medal_type='Silver')) as r2 on (r1.country_abbrev=r2.country_abbrev)

)   where abs(go_count-sil_count) >=2 order by abs(go_count-sil_count) desc

8-list those country whose perfomance is below then avg.

select country_abbrev, c as count from (

(select country_abbrev, c from (

select country_abbrev,count(medal_type) as c from athlete natural join result group by country_abbrev)

   as   r1) as r3 join

(select avg(c) as c2 from (

select country_abbrev,count(medal_type) as c from athlete natural join result

group by country_abbrev)

as r2) as r4 on (r3.c<=r4.c2)

) order by c   asc

9- list all the country who have medal count for atleast each type of   medal

select country_name,gold,Silver,Bronze from   (

  (select country_name,count(medal_type) as gold from (select * from athlete natural join result natural join country)as r where medal_type='Gold' group by r.country_name) as a1

   natural join

(select country_name,count(medal_type) as Silver from (select * from athlete natural join result natural join country)as r1 where medal_type='Silver' group by r1.country_name)   as a2

natural join

   (select country_name,count(medal_type) as Bronze from (select * from athlete natural join result natural join country)as r2 where medal_type='Bronze'group by r2.country_name)as a3

)

10)   LIST THE ATHLETE WHO HAVE PARTICIPATED IN WINTER AND WIN MEDAL IN MORE THEN 1 DISCIPLINE

select distinct   fname,lname ,count ,sport_id ,country_abbrev,season   from ((

select   fname,lname,count(fname) as count

  from athlete natural join result group by fname,lname)as r1 natural join (select * from athlete natural join result)

  as r2) where count>1 AND   season='Winter' order by count desc

11)   TEAM OF THE 2016 WINTER OLYMPIC (HIGHEST NO. OF MEDAL)

  select country_name,gold,Silver,Bronze ,(gold+Silver+Bronze) as total from   (

(select country_name,count(medal_type) as gold from (select * from athlete natural join result natural join country)as r

where medal_type='Gold' and season='Winter'   group by r.country_name) as a1 natural join

  (select country_name,count(medal_type) as Silver from (select * from athlete natural join result natural join country)as r1   where medal_type='Silver' and season='Winter' group by r1.country_name)   as a2 natural join (select country_name,count(medal_type) as Bronze from (select * from athlete natural join result natural join country)as r2

where medal_type='Bronze' and season='Winter'   group by r2.country_name)as a3   )   order by total desc limit 1

12) List the athlete who got the same medal in same discipline of any sport(tie case)

  select r2.fname,r2.lname, discipline_name,season,type,kind,medal_type from (

(select discipline_name,season,type,kind,medal_type,count(discipline_name)

from athlete natural join result group by discipline_name,type,kind,medal_type,season

having (count(discipline_name)>1 and

type='Individual')) as r5 natural join (select *   from athlete natural join result) as r2

) order by medal_type

13)-List the total no. of gold, silver ,bronze medal obtained by the country who hosted the 2016 summer and winter olympic.

select country_abbrev,Gold,Silver,Bronze from

(select country_abbrev,count(medal_type)as Gold from

(select athlete_id,country_abbrev,medal_type from athlete natural join result)as r1   natural join

(select country_abbrev from Olympic) as r2 where medal_type='Gold' group by country_abbrev) as e1 natural join

(select country_abbrev,count(medal_type)as Silver from

(select athlete_id,country_abbrev,medal_type from athlete natural join result)as r1   natural join

(select country_abbrev from Olympic) as r2 where medal_type='Gold' group

by country_abbrev) as e2 natural join

    (select country_abbrev,count(medal_type)as Bronze from

    (select athlete_id,country_abbrev,medal_type from athlete natural join
result)as r1   natural join

    (select country_abbrev from Olympic) as r2 where medal_type='Gold' group
by country_abbrev) as e3