# DATABASE MANAGEMENT SYSTEMS PROJECT ASSIGNMENT -3

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1.Create the tables (Athletes, Coaches, Entries, Medals, Teams ) and add the appropriate primary and foreign keys.

CREATE TABLE Athletes(a\_name varchar(50) PRIMARY KEY ,noc char(50), discipline char(50), c\_id integer);

CREATE TABLE Coaches(c\_id integer PRIMARY KEY,c\_name varchar(50),noc char(50), discipline char(50),event char(50));

CREATE TABLE EntriesGender(discipline varchar(50) PRIMARY KEY, male integer, female integer, total integer);

CREATE TABLE medals(rank integer,t\_name varchar(50) PRIMARY KEY, gold integer, silver integer, bronze integer, total integer, rank by total integer);

CREATE TABLE Teams (t\_name varchar(50), discipline char(50), NOC char(50), Event char(50));

CREATE TABLE guide (a\_name varchar(50), c\_id integer);

2. Find the names of the athletes who's discipline is badminton .

SELECT a\_name FROM athletes WHERE discipline='Badminton';



3. Count the total number of countries who has swimming as their discipline.

SELECT COUNT(noc) FROM athletes WHERE discipline='Swimming';



4. Find the names of the coaches and their respective countries whose event value is men.

### SELECT c\_name,noc FROM coaches WHERE event='Men';

Query Results	
c_name	noc
BATISTA Fernando	Argentina
CADENAS MONTANES Manuel	Argentina
GOMEZ CORA Santiago	Argentina
HERNANDEZ Sergio	Argentina
MENDEZ Marcelo Rodolfo	Argentina
ARNOLD Graham	Australia
BATCH Colin	Australia
FATOVIC Elvis	Australia
GOORJIAN Brian	Australia
POTTER Anthony	Australia
WALSH Tim	Australia
KRIST JANSSON Aron	Bahrain
McLEOD Shane	Belgium
DAL ZOTTO Renan	Brazil
de OLIVEIRA Marcus Ricardo	Brazil
JARDINE Andre	Brazil
GADEMAN Pasha	Canada
HENNING Andre	Canada
110.40.01	^4-

I KIDAT WIKE	United States of Afficilita
POPOVICH Gregg	United States of America
SPERAW John	United States of America
UDOVICIC Dejan	United States of America
SARTI Ronald	Venezuela

93 row(s)

Total runtime: 3.787 ms

5. Find the name and NOC of coaches that do not have football as their game.

### SELECT c\_name,noc FROM coaches WHERE discipline!='Football';

c_name	noc
CRUZ Filipe	Angola
CADENAS MONTANES Manuel	Argentina
FERRARO Hernan	Argentina
GOMEZ CORA Santiago	Argentina
HERNANDEZ Sergio	Argentina
LOPEZ Monica Susana	Argentina
MENDEZ Marcelo Rodolfo	Argentina
RETEGUI Carlos Jose	Argentina
RODRIGUEZ Eduardo Rafael	Argentina
WOELFLIN Roberto Osvaldo	Argentina
BATCH Colin	Australia
BRONDELLO Sandy	Australia
CHAMBERS Cheryl	Australia
DAVY Jeremy	Australia
DYKSTRA Trisha	Australia
FATOVIC Elvis	Australia
GOORJIAN Brian	Australia
HARROW Laing	Australia
JENNINGS Dee	Australia
JONES Nathan	Australia
KIRKPATRICK Andrew	Δustralia

GUILLEN Ronald	Venezuela
MANZANILLO Andres	Venezuela
PANTOJA Heman	Venezuela
PEREZ Jose	Venezuela
SARTI Ronald	Venezuela
VASQUEZ Diego	Venezuela
VILLEGAS Orlando	Venezuela

335 row(s)
Total runtime: 5.597 ms
SQL executed.

6. Find the countries that play archery and those that do not have mixed team as their event.

SELECT noc FROM teams WHERE discipline='Archery' AND event!='Mixed Team';



7. Find the countries and their ranks whose total medals are between 30 to 100.

SELECT t\_name,rank FROM medals WHERE total<100 AND total>30;

Query Results	
t_name	rank
People's Republic of China	2
Japan	3
Great Britain	4
ROC	5
Australia	6
Netherlands	7
France	8
Germany	9
Italy	10
9 row(s)	
Total runtime: 1.062 ms	
SQL executed.	

8. Find the coaches names from spain who plays atleast two different games.

As the coaches names are unique in the dataset and only one coach plays one game. This question is not possible to solve.

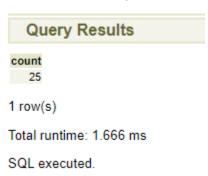
8. Find the coaches name and athletes names who plays for spain.

SELECT a.a\_name,c.c\_name FROM athletes a JOIN coaches c ON a.c\_id=c.c\_id WHERE a.noc='Spain';

ABDELSALAM Mohamed	SHAWKY	Gharib
ADEL Ibrahim	SHAWKY	Gharib
ASHOUR Emam	SHAWKY	Gharib
FL WENCH Mahmoud	SHAWKY	Gharih

9. Count the number of games who has males and females less than 100.

SELECT COUNT(discipline) FROM entriesgender WHERE male<100 and female<100;



10. Find the top countries that received most gold medals and find the countries that received the least gold medals.

(a)

select t\_name FROM medals WHERE gold = ( SELECT MAX(gold) FROM medals );



SELECT t\_name, MAX (gold) FROM medals GROUP BY t\_name HAVING MAX(gold) > 20;

# Query Results t\_name max People's Republic of China 38

 Japan
 27

 United States of America
 39

 Great Britain
 22

4 row(s)

Total runtime: 1.784 ms

SQL executed.

(b) select t\_name FROM medals WHERE gold = ( SELECT MIN(gold) FROM medals );

#### **Query Results**

t\_name Colombia Azerbaijan Dominican Republic Armenia Kyrgyzstan Mongolia Argentina San Marino Jordan Malaysia Nigeria Bahrain Saudi Arabia Lithuania North Macedonia Namibia Turkmenistan Kazakhstan Mexico Finland Botswana Burkina Faso Cote divoire Ghana Grenada Kuwait Republic of Moldova Syrian Arab Republic

28 row(s)

Total runtime: 1.423 ms

SQL executed.

11. Find the country that produces the highest number of coaches.

SELECT noc FROM coaches JOIN(SELECT teams.c\_id, COUNT(teams.c\_id) AS coachCount FROM teams

GROUP BY teams.c\_id ORDER BY coachCount DESC LIMIT 1) sk ON (sk.c\_id = coaches.c\_id);



12. Find the countries that produces the least number of coaches.

SELECT noc FROM coaches JOIN(SELECT teams.c\_id, COUNT(teams.c\_id) AS coachCount FROM teams GROUP BY teams.c\_id ORDER BY coachCount LIMIT 1) sk ON (sk.c\_id = coaches.c\_id);



13. Find the number of the athletes who has more participation in each game.

SELECT MAX(total) FROM entriesgender eg, athletes a WHERE eg.discipline=a.discipline;

#### **Query Results**

max 2041

1 row(s)

Total runtime: 3.478 ms

### 14. Produce a list of the number of different discipline that are had by countries.

### SELECT noc,COUNT(discipline) FROM athletes GROUP BY noc;

Query Results	
noc	count
Myanmar	2
Nicaragua	8
Mexico	155
Tonga	5
Nepal	5
Guyana	7
Palestine	4
Poland	195
Lebanon	6
Costa Rica	13
Republic of Moldova	19
Haiti	6
Samoa	8
Equatorial Guinea	3
Antigua and Barbuda	6
Andorra	2
Somalia	2
NULL	0
Bangladesh	6
Indonesia	26
Venezuela	42
Rrinei Danissalam	2

Brunei Darussalam	2
Kiribati	3
Federated States of Micronesia	3
Cameroon	11
Luxembourg	11
Czech Republic	117
Sweden	129
Virgin Islands, British	3
Montenegro	35
Uganda	24
Jordan	11
Syrian Arab Republic	6
Dominican Republic	61
Cambodia	3
Ireland	116
Papua New Guinea	7
Singapore	23
San Marino	4
American Samoa	5
Sri Lanka	9
Uzbekistan	62
Portugal	84
Finland	45
Malta	6

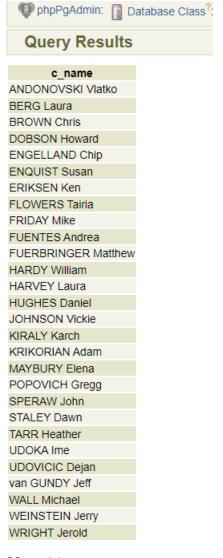
Bolivia	5
Ethiopia	42
Niger	7
Panama	9
South Sudan	2
Yemen	3
Lithuania	37
Bulgaria	41
Turkmenistan	8
Croatia	57
Tunisia	57
Aruba	3
Sudan	5
Mali	4
North Macedonia	8
Morocco	48

207 row(s)

Total runtime: 10.718 ms

15. Find the coaches who got more medals.

select c\_name FROM coaches WHERE noc in(select t\_name from medals where total in (select max(total) from medals));



28 row(s)

Total runtime: 3.276 ms

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16.List out the athletes with their name starting with A or B.

SELECT a\_name FROM athletes WHERE a\_name LIKE 'A%' OR a\_name LIKE 'B%' ORDER BY a\_name;

	ASHOUR Emam	
Query Results	ATKINSON Nathaniel	
,	AUDA Patrik	
a name	BACCUS Keanu	
ABALO Luc	BAJIC Stefan	
BDALLAH Shahd	BALDWIN Roldani	
BDALLA Maryam	BALEIWAIRIKI Iosefo Masikau	
BDELSALAM Mohamed	BALMACEDA Rosario	
	BALVIN Ondrej	
CUNA Yenny	BANN Blair Cameron	
DEL Ibrahim	BARBARA BARD Melvin	
EDO Yanara	BARD Melvin BAR Juan Manuel	
HMED Mohamed	BARRIONUEVO Maria Noel	
ICARDI Matteo	BATUM Nicolas	
LARIE Elissa	BAUTISTA Jose	
LBERTARRIO Agustina	BAYNES Aron	
LBICY Andrew	BAZAN VELEZ Lautaro	
LEXANDRI Anna-Maria	BEALE Daniel James	
LEXANDRI Eirini	BEATRIZ	
LI Ali Merza	BEKA BEKA Alexis	
LI Hasan	BEKHAZI Joelle	
I I Mohamed	BELMONTE Tomas	
LINE	BENITES Bruna	
LLEMAND Julie	BENN Brittany	
LLEN Bec	BERNA Phil	
	BERNARDONI Paul	
LMADA Thiago	BERTAUD Dimitry	
LMAQABI Ahmed	BIJAC Marko BISSETT Brenden David Nelson	
LMEIDA Teresa	BITOLO Gabriela	
LONSO Agostina	BITTER Johannes	BUISA Pam
LSAMAHIJI Hasan	BLANKENAU Jay	BUKIC Luka
LTENBURG Lisa	BLAZQUEZ Joaquin	BUI AICH SIMIAN Daniela
LVAREZ Dario	BLECHER Eden	
LVAREZ PIEDRAHITA Estefania	BLEICH Jeremy	BURKHILL Hannah
LVAREZ Santiago	BLICAVS Sara Kirsti	BUSLJE Andro
LVES Dani	BOBRITSKY Shelly	
LZIGKOUZI KOMINEA Maria Elli Lela	BODEGAS Michael Alexandre	123 row(s)
MIRI Nadiem	BOHACIK Jaromir	123 1011(3)
MORIM TALESKA Eduarda	BOLACA Napolioni	T-4-1 4 207
NDRESSA	BOLMARO Leandro Nicolas	Total runtime: 4.207 ms
NDRESSINHA	BONANNO Nicolas	
NDREWS Abby	BONE Edwina	SQL executed.
NOVAL Desire	BONFIM Caio	

17. List out coach, number of athletes he/she trains and the medals that the team received.

Select c\_id,COUNT(a\_name) ,medals.silver FROM athletes,medals GROUP BY c\_id;

### Query Results

silver	c_id	count
41	87	16
50	29	17
32	71	17
45	34	16
12	205	12

18. Which countries played either basketball or karate.

SELECT DISTINCT NOC FROM coaches WHERE discipline IN('Karate','Basketball');



19. Display the games and count of the athletes and count of the athletes that played by them.

### SELECT discipline, COUNT(a\_name) FROM athletes GROUP BY discipline;

Query Results		Equestrian	237		
discipline	count	Badminton	164		
Cycling Track	207	Weightlifting	187		
Sport Climbing	37	Modern Pentathion	69		
Archery	122				
NULL	0	Rhythmic Gymnastics	95		
Wrestling	279	Canoe Slalom	78		
Taekwondo	123	Trampoline Gymnastics	31		
Shooting	340	Baseball/Softball	219		
Judo	373	Cycling BMX Freestyle	19		
Football	566	Handball	342		
Athletics	2065	Swimming	739		
Artistic Swimming	98	Volleyball	274		
Table Tennis	164	Karate	77		
Table Tennis		Basketball	279		
Marathon Swimming	48	Surfing	38		
Canoe Sprint	235	Cycling BMX Racing	43		
Cycling Road	186	Boxing	269		
3x3 Basketball	62	Beach Volleyball	90		
Sailing	335	Skateboarding	77		
Tennis	178	Fencing	249		
Hockey	406	Cycling Mountain Bike	74	Triathlon	
Rowing	496	Artistic Gymnastics	187	47 row(s)	
Golf	115	Rugby Sevens	283	Total runtime: 7.336 ms	
Water Polo	269	Diving	133	SQL executed.	

### 20. What are the games that have same average of male and female

### SELECT discipline from entriesgender WHERE male=female;

discipline	_
3x3 Basketball	
Archery	
Artistic Gymnastics	
Basketball	
Beach Volleyball	Shooting
Canoe Slalom	Skateboarding
Cycling BMX Racing	Sport Climbing
Cycling Mountain Bike	Surfing
Golf	Table Tennis
Handball	Taekwondo
Hockey	Trampoline Gymnastics
Marathon Swimming	Triathlon
Modern Pentathlon	Volleyball
Sailing	23 row(s) Total runtime: 1.123 ms
Shooting	SQL executed.

21. Select discipline in which more men are there.

#### SELECT discipline FROM entriesgender WHERE male>female;

