

# CPSC 304 Project Cover Page

Milestone #: 4

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Group Number: 4

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

# University of British Columbia, Vancouver

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## Project Description

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## Project Description

Our project relates to international sport competition logistics. Sport competitions at the international level require careful planning and management with regards to venues, athletes, coaches, and specific sporting events. Our project consolidated all of these parts into a single database management system by allowing the user to view sport competition entities and perform operations, such as updating athletes, inserting new teams, and deleting athletes and coaches.

### **How the Final Schema Differed**

We removed the TeamName -> SportName functional dependency and therefore also removed the TeamSport table. Based on real world context, we decided against it.

We added competitionName and competitionYear to the primary key of the SportingEvent relation (formerly Event), so that we can differentiate between the same event (e.g. 50m swimming) in different competitions. We changed the table names that were a combination of table names, such as TeamPlaysCompetes\_For to Team to make it easier to read. We also added ON DELETE CASCADE to Athlete and Coach as we realized those were necessary when we deleted a Person. We updated our INSERT INTO statements to make sure integrity constraints are held, such as by inserting a foreign key that already exists. We then removed some of the relations that were not in BCNF (Athlete\_Old, Person\_Old, Venuels\_In).

### **Link to Repository**

[https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project\\_a5i7g\\_j3t0d\\_y2s1d](https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_a5i7g_j3t0d_y2s1d)

### **SQL Script**

[https://raw.githubusercontent.com/CPSC304-2022W-T2/project\\_a5i7g\\_j3t0d\\_y2s1d/main/script.sql?token=GHSAT0AAAAAAAAAERGCRS5OI5JMTTFPLYOUZBOJYXQ](https://raw.githubusercontent.com/CPSC304-2022W-T2/project_a5i7g_j3t0d_y2s1d/main/script.sql?token=GHSAT0AAAAAAAAAERGCRS5OI5JMTTFPLYOUZBOJYXQ)

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## Schema

Foreign Key: bolded

Primary Key: underlined

AgeCategory(age: integer, ageCategory: char(25))

Athlete(participantID: integer, height: integer, mass: integer)

City(latitude: decimal, longitude: decimal, cityName: char(100), **countryName**: char(100))

Coach(participantID: integer, experience: integer)

Coaches(athleteID: integer, **coachID**: integer, startDate: date)

Competes\_In(participantID: integer, eventName: char(60), **sportName**: char(60), ranking: integer, **competitionName**: char(100), **competitionYear**: integer)

Competition(**competitionName**: string, yearVal: integer, budget: integer, **latitude**: decimal, **longitude**: decimal)

CompetitionSport(**competitionName**: string, yearVal: integer, **sportName**: string)  
Country(countryName: string)

Mascot(mascotName: string, mascotType: string)

Member\_Of(participantID: integer, **teamID**: string, startDate: date)

Person(participantID: integer, firstName: string, lastName: string, age: integer)

PostalCodeCity(postalCode: string, **latitude**: decimal, **longitude**: decimal, **countryName**: string)

Represents(**mascotName**: string, **competitionName**: string, yearVal: integer)

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Sport(sportName: string)

SportingEvent(**sportName**: string, eventName: string, startDate: date, endDate: date, **venueName**: string, **competitionName**: string, **competitionYear**: integer)

Team(teamID: string, capacity: integer, teamName: string, established: integer, **sportName**: string, **countryName**: string)

Venue(venueName: string, capacity: integer, postalCode: string)

WeightClass(mass: integer, weightClass: string)

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### Screenshots of what data is present in each relation after the SQL initialization script is run

#### AgeCategory

AGE	AGECATEGORY
14	U16
15	U16
17	U20
18	U20
20	U20
100	Senior
200	Senior
150	Senior

#### Athlete

PARTICIPANTID	HEIGHT	MASS
1		
2	100	91
3		57
4		67
5	200	73

#### City

LATITUDE	LONGITUDE	CITYNAME	COUNTRYNAME
52	0	London	United Kingdom
41	74	New York City	United States
36	140	Tokyo	Japan
49	2	Paris	France
38	122	San Francisco	Morocco
25	134	Sydney	Australia

6 rows selected.

#### Coach

PARTICIPANTID	EXPERIENCE
123	10
12345	5
6	20
99	0
99999	33

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### Coaches

ATHLETEID	COACHID	STARTDATE
1	123	05-FEB-22
2	12345	12-JAN-23
3	6	26-MAY-21
4	99	12-JAN-23
5	99999	01-JAN-20

### Competes\_In

PARTICIPANTID	EVENTNAME	SPORTNAME	RANKING	COMPETITIONNAME	COMPETITIONYEAR
1	Women's Doubles	Tennis	10	Summer Olympics	2012
2	Women's Single	Tennis	1	Summer Olympics	2012
3	Men's Double	Tennis		Summer Olympics	2016
4	Slalom	Skiing	1	Winter Youth Olympics	2010
4	Singles Skating	Figure Skating	2	Winter Youth Olympics	2010
5	Singles Skating	Figure Skating	2	Winter Youth Olympics	2020
5	Slalom	Skiing	1	Winter Youth Olympics	2020

7 rows selected.

### Competition

COMPETITIONNAME	YEARVAL	BUDGET	LATITUDE	LONGITUDE
FIFA World Cup Qatar 2022	2022	1	36	140
Australian Open 2023	2023		25	134
Tour de France 2022	2022		49	2
Super Bowl LVI	2022		41	74
Winter Youth Olympics	2020		52	0
Winter Youth Olympics	2010		52	0
Winter Olympics	2010		38	122
Winter Olympics	2020		38	122
Summer Olympics	2012	300	41	74
Summer Olympics	2016	300	41	74

10 rows selected.

### CompetitionSport

```
SQL> select * from competitionsport
2 ;
```

COMPETITIONNAME	YEARVAL	SPORTNAME
Australian Open 2023	2023	Tennis
FIFA World Cup Qatar 2022	2022	Football
Summer Olympics	2012	Tennis
Summer Olympics	2016	Tennis
Super Bowl LVI	2022	American Football
Tour de France 2022	2022	Cycling
Winter Olympics	2010	Skiing
Winter Youth Olympics	2010	Skiing
Winter Youth Olympics	2020	Figure Skating
Winter Youth Olympics	2020	Skiing

10 rows selected.

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### Country

```
SQL> select * from country;
```

COUNTRYNAME
-------------

Australia
Canada
France
India
Japan
Morocco
New Zealand
Spain
United Kingdom
United States

10 rows selected.

### Mascot

```
SQL> select * from mascot  
2 ;
```

MASCOTNAME
------------

MASCOTTYPE
------------

Thunder	Thunderbird
Quatchi	sasquatch
Miga	killer whale
Sumi	Thunderbird
Thundy	Thunderbird
Vinicius	Brazilian hybrid animal
Wenlock	Brazilian plant

7 rows selected.

### Member\_Of

```
SQL> select * from member_of  
2 ;
```

PARTICIPANTID	TEAMID	STARTDATE
---------------	--------	-----------

1	MUFC001	05-FEB-10
123	LAL001	05-FEB-10
1	LAL001	05-FEB-10
2	MUFC001	05-FEB-10
3	MUFC001	05-FEB-10
1	NZAB001	05-FEB-12

6 rows selected.



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### Person

PARTICIPANTID	FIRSTNAME	LASTNAME	AGE
1	Ryan	Gao	19
2	Edward	Chong	20
3	Julia	You	20
4	Jessica	Wong	100
5	Jason	Hall	15
123	Greg	Patel	65
12345	Brad	Nguyen	42
6	Jed	Garcia	45
99	Chris	Martin	31
99999	Ryan	Lee	60

10 rows selected.

### PostalCodeCity

```
SQL> select * from postalcodecity;
```

POSTALCODE	LATITUDE	LONGITUDE	COUNTRYNAME
HA9 9WS	52	0	United Kingdom
NY 10121	41	74	United States
VIC 3002	36	140	Australia
04480	49	2	India
CA 90015	38	122	United States

### Represents

MASCOTNAME	COMPETITIONNAME	YEARVAL
Miga	Winter Youth Olympics	2020
Quatchi	Winter Olympics	2010
Sumi	Winter Olympics	2010
Vinicius	Summer Olympics	2016
Wenlock	Summer Olympics	2012

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### Sport

```
SQL> select * from Sport;
```

SPORTNAME

American Football  
Basketball  
Cricket  
Cycling  
Figure Skating  
Football  
Ice hockey  
Rugby  
Skiing  
Soccer  
Tennis

### SportingEvent

SPORTNAME	EVENTNAME	STARTDATE	ENDDATE	VENUENAME	COMPETITIONNAME	COMPETITIONYEAR
Tennis	Women's Doubles	26-JUN-12	09-JUL-12	All England Lawn Tennis and Croquet Club	Summer Olympics	2012
Tennis	Women's Single	26-JUN-12	09-JUL-12	All England Lawn Tennis and Croquet Club	Summer Olympics	2012
Figure Skating	Singles Skating	15-JAN-20	16-JAN-20	Gangneung Ice Arena	Winter Youth Olympics	2020
Tennis	Men's Double	26-JUN-12	09-JUL-12	All England Lawn Tennis and Croquet Club	Summer Olympics	2016
Figure Skating	Ice Dance	15-JAN-20	16-JAN-20	Gangneung Ice Arena	Winter Olympics	2020
Figure Skating	Singles Skating	15-FEB-20	26-FEB-20	Gangneung Ice Arena	Winter Olympics	2020
Skiing	Slalom	19-FEB-10	19-FEB-10	Yongpyong Alpine Centre	Winter Youth Olympics	2010
Skiing	Slalom	19-FEB-20	19-FEB-20	Yongpyong Alpine Centre	Winter Youth Olympics	2020
Figure Skating	Singles Skating	15-FEB-10	26-FEB-10	Gangneung Ice Arena	Winter Youth Olympics	2010

9 rows selected.

### Team

```
SQL> select * from Team;
```

TEAMID	CAPACITY	TEAMNAME	ESTABLISHED	SPORTNAME	COUNTRYNAME
MUFC001	74140	Manchester United Football Club	1878	Football	United Kingdom
LAL001	18997	Los Angeles Lakers	1947	Basketball	United States
NZAB001	50000	New Zealand National Rugby Union Team	1884	Rugby	New Zealand
RMD001	81044	Real Madrid Club de Futbol	1902	Football	Spain
MI001	33108	Mumbai Indians	2008	Cricket	India

### Venue

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```
SQL> select * from Venue;
```

VENUENAME	CAPACITY	POSTALCODE
Wembley Stadium	90000	HA90WS
Madison Square Garden	20789	NY 10121
Melbourne Cricket Ground	100024	VIC 3002
Estadio Azteca	87523	04480
Staples Center		CA 90015
All England Lawn Tennis and Croquet Club	1111	CA 90015
Gangneung Ice Arena	1111	CA 90015
Yongpyong Alpine Centre	10000	CA 90015

## WeightClass

```
SQL> select * from WeightClass;
```

MASS	WEIGHTCLASS
51	flyweight
52	flyweight
57	featherweight
67	welterweight
68	welterweight
73	middleweight
91	cruiserweight

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## Queries

### Insert Operation

Inserting a team

### SQL

```
INSERT INTO Team(teamID, capacity, teamName, established, sportName, countryName)
VALUES ('$teamID', $capacity, '$teamName', $established, '$sportName',
'$countryName');
```

In the example below, \$teamID = BCF123, \$capacity = 55, \$teamName = BC Footballers, \$established = 2000, \$sportName = Football, \$countryName = Canada

### About

The query can be found at /teams.php, at line 91, in the handleInsertTeamRequest() function. The “Team” table has sportName as a foreign key referencing the Sport table and countryName referencing the Country table, so it will insert into those tables if those values don’t exist.

### Screenshots

#### Before

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

List Team Members

Team ID

List Team

Insert New Team

BCF123

55

BC Footballers

2000

Football

Canada

Insert Team

Show All Teams

Show All

Show All Sports

Show All

Show All Countries

TEAMID	CAPACITY	TEAMNAME	ESTABLISHED	SPORTNAME	COUNTRYNAME
MUFC001	74140	Manchester United Football Club	1878	Football	United Kingdom
LAL001	18997	Los Angeles Lakers	1947	Basketball	United States
NZAB001	50000	New Zealand National Rugby Union Team	1884	Rugby	New Zealand
RMD001	81044	Real Madrid Club de Futbol	1902	Football	Spain
MI001	33108	Mumbai Indians	2008	Cricket	India

Immediately After

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

List Team Members

Team ID

List Team

Insert New Team

Team ID

Capacity

Team Name

Year Established

Sport

Country

Insert Team

New team added!

TEAMID	CAPACITY	TEAMNAME	ESTABLISHED	SPORTNAME	COUNTRYN
BCF123	55	BC Footballers	2000	Football	Canada
MUFC001	74140	Manchester United Football Club	1878	Football	United King
RMD001	81044	Real Madrid Club de Futbol	1902	Football	Spain

Show All Teams

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

List Team Members

Team ID

List Team

Insert New Team

Team ID

Capacity

Team Name

Year Established

Sport

Country

Insert Team

TEAMID	CAPACITY	TEAMNAME	ESTABLISHED	SPORTNAME	COUNTRYNAME
BCF123	55	BC Footballers	2000	Football	Canada
MUFC001	74140	Manchester United Football Club	1878	Football	United Kingdom
LAL001	18997	Los Angeles Lakers	1947	Basketball	United States
NZAB001	50000	New Zealand National Rugby Union Team	1884	Rugby	New Zealand
RMD001	81044	Real Madrid Club de Futbol	1902	Football	Spain
MIO01	33108	Mumbai Indians	2008	Cricket	India

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## Delete Operation

Deleting a person

### SQL Query

```
DELETE FROM Person WHERE participantID = $IDToDelete
```

In the example below, \$IDToDelete = 99999

### About

The query can be found in /person.php, on line 67 under the handleDeletePersonRequest() function.

here is an ON DELETE CASCADE in both the Coach and Athlete tables, so deleting the participantID from Person will delete the corresponding tuples in those tables as well.

## Screenshots

### Before

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

Delete Person

Delete

Show Athletes

Show All

Show Coaches

Show All

Show All People

Show All

PARTICIPANTID	FIRSTNAME	LASTNAME	AGE
1	Ryan	Gao	19
2	Edward	Chong	20
3	Julia	You	20
4	Jessica	Wong	100
5	Jason	Hall	15
123	Greg	Patel	65
12345	Brad	Nguyen	42
6	Jed	Garcia	45
99	Chris	Martin	31
99999	Ryan	Lee	60

After

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

Delete Person

Participant ID

Delete

Show Athletes

Show All

Show Coaches

Show All

Show All People

Show All

Tuple with Person 99999 deleted.

Show All People

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

Delete Person

Participant ID

Delete

Show Athletes

Show All

Show Coaches

Show All

Show All People

Show All

PARTICIPANTID	FIRSTNAME	LASTNAME	AGE
1	Ryan	Gao	19
2	Edward	Chong	20
3	Julia	You	20
4	Jessica	Wong	100
5	Jason	Hall	15
123	Greg	Patel	65
12345	Brad	Nguyen	42
6	Jed	Garcia	45
99	Chris	Martin	31

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## Update Operation

Update an athlete's attributes

### SQL

```
UPDATE Athlete SET height = $height, mass = $weight WHERE participantID = $participantID
```

In the example below: \$participantID = 2, \$height = 175, \$mass = 55

### About

The query can be found in /athletes.php on line 123 in the handleUpdateAthleteRequest() function.

### Screenshots

#### Before

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

**Find Athlete Details**

**Update Athlete Details**

**Show All Athletes**

**Find Athletes Playing All Sports in a Competition**

PARTICIPANTID	FIRSTNAME	LASTNAME	HEIGHT	MASS
2	Edward	Chong	100	91



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### After

Sports Competition Management System  
eddie, julia, ryan

TeamsAthletesPersonSportsCountries

Find Athlete Details

Update Athlete Details

Show All Athletes

Find Athletes Playing All Sports in a Competition

Successfully updated Athlete 2!

PARTICIPANTID	FIRSTNAME	LASTNAME	HEIGHT	MASS
2	Edward	Chong	170	55

### Selection

Selecting sportNames from Sport based on user input

### SQL

```
SELECT sportName FROM Sport WHERE LOWER(sportName) LIKE '%($sportName)%'
```

In the example below \$sportName = Foot. There is a strtolower() operator on the sportName in the PHP code to make it case insensitive that is not included in the above query.

### About

The query can be found at /sport.php on line 42 in the handleFindSportRequest() function

### Screenshots

### Before

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Sports Competition Management System  
eddie, julia, ryan

Teams Athletes Person Sports Countries

**Find Sport**

**Show All Sports**

### After

Sports Competition Management System  
eddie, julia, ryan

Teams Athletes Person Sports Countries

**Find Sport**

**Show All Sports**

Here are the sports that contain 'Foot':

SPORTNAME
American Football
Football

## Projection

Selecting columns from tables

### SQL

#### Selecting all table names

```
SELECT table_name FROM user_tables ORDER BY table_name
```

#### Selecting all table columns from a table

```
SELECT column_name FROM USER_TAB_COLUMNS WHERE  
table_name='$selected_table'
```

#### Selecting all checked columns from the table

```
SELECT $selected_columns FROM $selected_table
```

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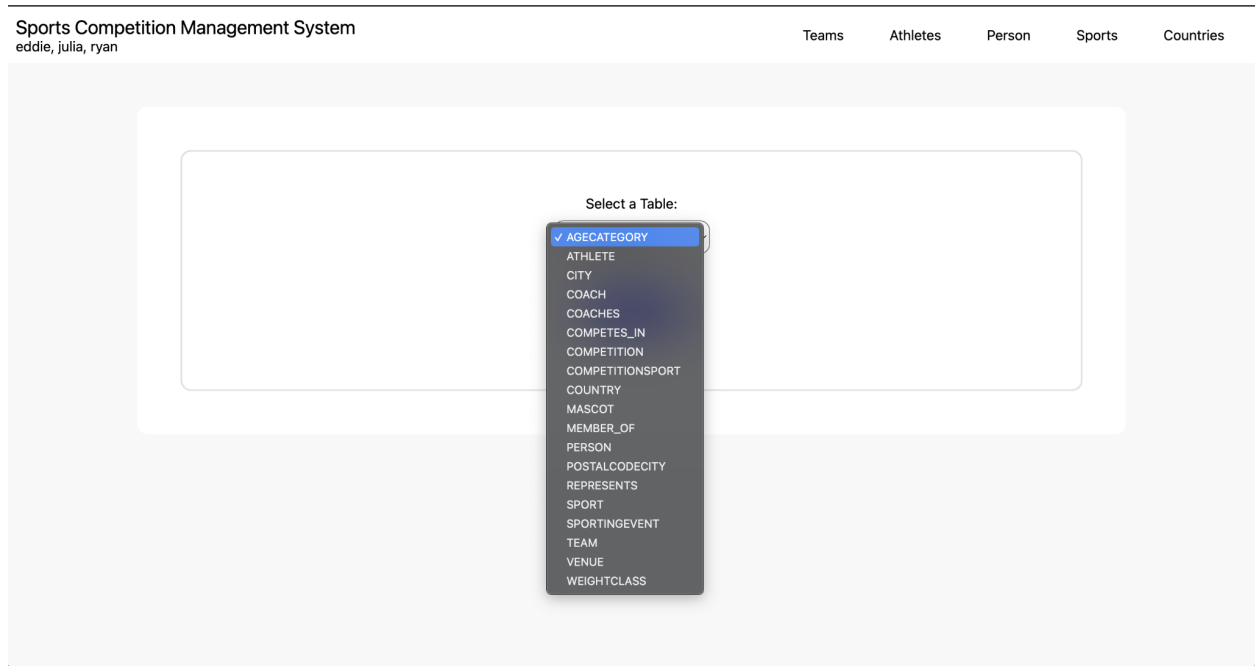
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## About

The relevant queries can be found at </index.php> (lines 15 - 84)

## Screenshots

### Selecting tables



## Before

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Sports Competition Management System  
eddie, julia, ryan

Teams

Athletes

Person

Sports

Select a Table:

CITY

Select Columns:

LATITUDE ☐ LONGITUDE ☐

CITYNAME ☐ COUNTRYNAME ☐

Submit

**After**(checking all columns)

Select a Table:

CITY

Select Columns:

LATITUDE ☒ LONGITUDE ☒

CITYNAME ☒ COUNTRYNAME ☒

Submit

LATITUDE	LONGITUDE	CITYNAME	COUNTRYNAME
52	0	London	United Kingdom
41	74	New York City	United States
36	140	Tokyo	Japan
49	2	Paris	France
38	122	San Francisco	Morocco
25	134	Sydney	Australia

(checking some columns)

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Select a Table:

CITY

Select Columns:

LATITUDE ☐ LONGITUDE ☐

CITYNAME ☒ COUNTRYNAME ☒

Submit

CITYNAME	COUNTRYNAME
London	United Kingdom
New York City	United States
Tokyo	Japan
Paris	France
San Francisco	Morocco
Sydney	Australia

### Join

List all the names of members of a given team

### SQL

```
SELECT P.participantID, P.firstName, P.lastName, P.age
      FROM Person P, Team T, Member_Of M
      WHERE P.participantID = M.participantID AND
            M.teamID = T.teamID AND
            T.teamID = [user inputted teamID]
```

In the example below, the user inputted teamID is 'MUFC001'

### About

The query can be found in teams.php at line 82, in the handleInsertTeamRequest() function.

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## Screenshots

### Before

### List Team Members

List Team

### Insert New Team

Insert Team

### After

### List Team Members

List Team

### Insert New Team

Insert Team

PARTICIPANTID	FIRSTNAME	LASTNAME	AGE
2	Edward	Chong	20
3	Julia	You	20

2 result(s) found

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## Aggregation with GROUP BY

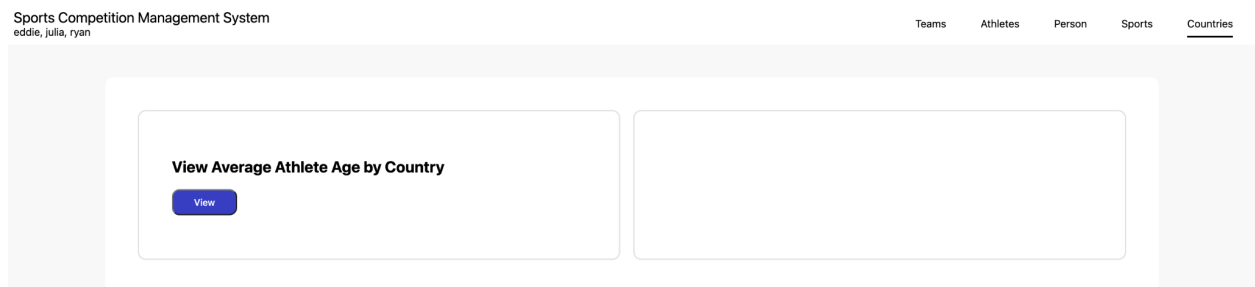
## SQL

```
SELECT T.countryName, AVG(P.age)
      FROM Person P, Team T, Member_Of M, Athlete A
     WHERE P.participantID = M.participantID
      AND T.teamID = M.teamID
      AND P.participantID = A.participantID
     GROUP BY T.countryName
```

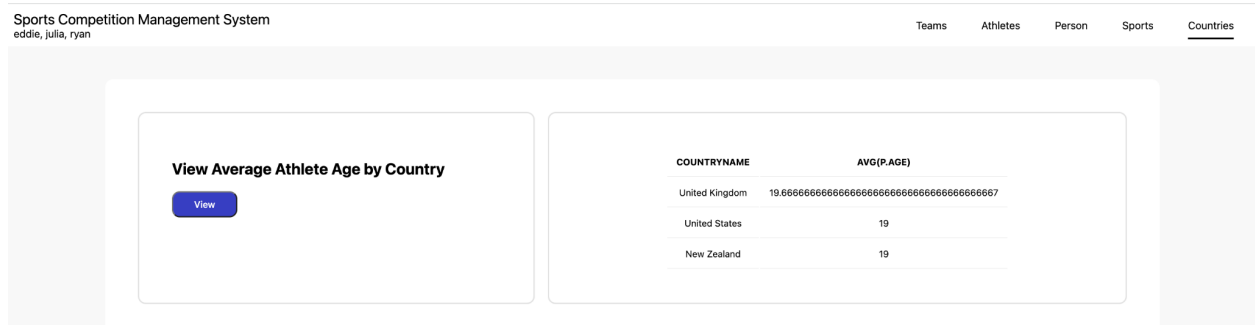
## About

Can be found at `/countries.php:36, handleCountryAverageRequest()`

## Before



## After



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## Aggregation with HAVING

Find all teams with at least X team members (x is specified by the user)

### SQL

```
SELECT T.teamID, T.teamName, COUNT(*) as Members
FROM Team T, Member_Of M
WHERE M.teamID = T.teamID
GROUP BY T.teamID, T.teamName
HAVING $x <= COUNT(*);
```

### About

Can be found at teams.php:63, handleFindLargeTeamsRequest()

### Screenshots

#### Before

Sports Competition Management System  
eddie, julia, ryan

Teams Athletes Person Sports Countries

**List Team Members**

**Insert New Team**

**Show All Teams**

**Show All Sports**

**Show All Countries**

**Find Teams With at Least...**

**Find teams whose oldest member has the smallest age among all teams.**



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### After

Sports Competition Management System  
eddie, julia, ryan

Teams Athletes Person Sports Countries

#### List Team Members

#### Insert New Team

#### Show All Teams

#### Show All Sports

#### Show All Countries

#### Find Teams With at Least...

**Find teams whose oldest member  
has the smallest age among all teams**

TEAMID	TEAMNAME	MEMBERS
MUFC001	Manchester United Football Club	3

1 result(s) found with at least 3 members.

Nested Aggregation with GROUP BY

About

Can be found at teams.php:205

Screenshots

Before

List Team Members

Team ID

List Team

Insert New Team

Team ID

Capacity

Team Name

Year Established

Sport

Country

Insert Team

Show All Teams

Show All

Show All Sports

Show All

Show All Countries

Show All

Find Teams With at Least...

# Minimum members

Find

Find teams whose oldest member has the smallest age among all teams.

Search

After

List Team Members

Team ID

List Team

Insert New Team

Team ID

Capacity

Team Name

Year Established

Sport

Country

Insert Team

Show All Teams

Show All

Show All Sports

Show All

Show All Countries

Show All

Find Teams With at Least...

# Minimum members

Find

Find teams whose oldest member has the smallest age among all teams.

Search

TEAMID	MAX(P.AGE)
NZAB001	19

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### Division

Find all athletes who play every sport in a given competition in a given year

### SQL

```
SELECT a.participantID FROM Athlete a
WHERE NOT EXISTS
(SELECT s.sportName FROM Sport s, Competition comp, CompetitionSport cs
WHERE comp.competitionName = ' ' . $competitionName . ' '
AND comp.yearVal = ' ' . $yearVal . ' '
AND comp.competitionName = cs.competitionName
AND comp.yearVal = cs.yearVal
AND s.sportName = cs.sportName
AND NOT EXISTS (SELECT c.participantID FROM Competes_In c
WHERE c.participantID = a.participantID
AND c.sportName = s.sportName
AND c.competitionYear = comp.yearVal
AND c.competitionName = comp.competitionName ) )
```

In the example below, \$competitionName is 'Winter Youth Olympics', and \$yearVal is 2020.

### About

The query can be found in /athletes.php:109, in the handleFindAthleteInAllSportsRequest() function.

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### Screenshots

#### Before

Sports Competition Management System  
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Teams Athletes Person Sports Countries

**Find Athlete Details**

**Update Athlete Details**

**Show All Athletes**

**Find Athletes Playing All Sports in a Competition**

#### After

**Find Athlete Details**

**Update Athlete Details**

**Show All Athletes**

**Find Athletes Playing All Sports in a Competition**

**PARTICIPANTID**

---

5

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