

STOP

CADA SEGUNDO, CADA
CENTÍMETRO, CADA PONTO

GUILHERME MENEGHETTI EINLOFT

JAIME ANTONIO DANIEL FILHO

LUÍS GUSTAVO WERLE TOZEVICH

O PROCESSO PARA A CRIAÇÃO

DATA GRĀ-BRETANHA E EUA DATABASE

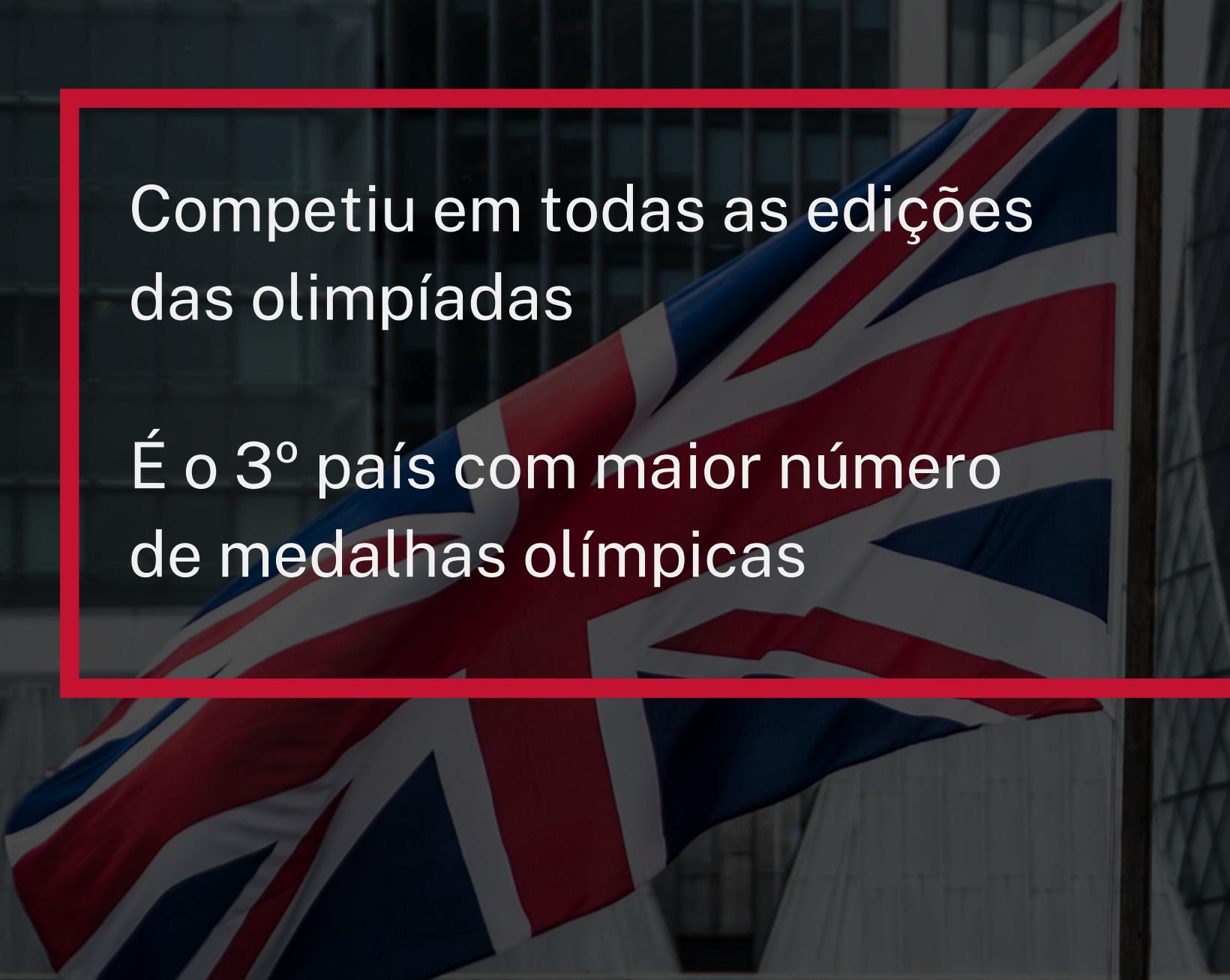


FASE 1

ETAPAS

- ESCOLHA DO PAÍS
- BUSCA PELA FONTE DOS DADOS
- NORMALIZAÇÃO
- EXTRAÇÃO E INSERÇÃO DOS DADOS
- NOVO PAÍS
- ALGUNS PROBLEMAS
- ESCOLHAS
- INTEGRAÇÃO DOS DADOS

POR QUE GRÃ-BRETANHA?

A large Union Jack flag is positioned in the lower-left foreground, partially obscured by a red rectangular callout box. The flag's red, white, and blue colors stand out against the dark background.

Competiu em todas as edições das olimpíadas

É o 3º país com maior número de medalhas olímpicas

Ganhou pelo menos uma medalha de ouro em todos os jogos de verão

ESCOLHA DA FONTE DOS DADOS

RGRiffin · UPDATED 6 YEARS AGO 2188 New Notebook Download (6 MB) ⚙

120 years of Olympic history: athletes and results

basic bio data on athletes and medal results from Athens 1896 to Rio 2016



Data Card Code (338) Discussion (21) Suggestions (0)

About Dataset

Context

This is a historical dataset on the modern Olympic Games, including all the Games from Athens 1896 to Rio 2016. I scraped this data from www.sports-reference.com in May 2018. The R code I used to scrape and wrangle the data is on GitHub. I recommend checking my kernel before starting your own analysis.

Note that the Winter and Summer Games were held in the same year up until 1992. After that, they staggered them such that Winter Games occur on a four year cycle starting with 1994, then Summer in 1996, then Winter in 1998, and so on. A common mistake people make when analyzing this data is to assume that the Summer and Winter Games have always been staggered.

Content

The file athlete_events.csv contains 27116 rows and 15 columns. Each row corresponds to an individual athlete competing in an individual Olympic event (athlete-events). The columns are:

1. ID - Unique number for each athlete
2. Name - Athlete's name
3. Sex - M or F
4. Age - Integer
5. Height - In centimeters

View more

Usability

8.24

License

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Expected update frequency

Not specified

Tags

Sports History

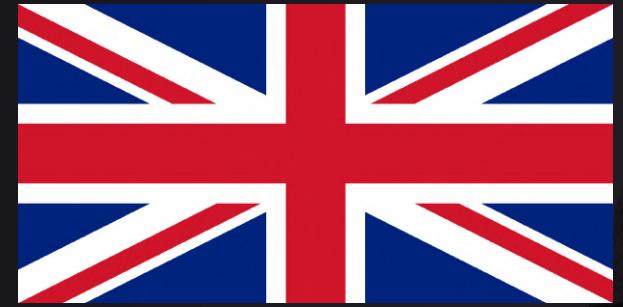
A PRIMEIRA VERSÃO

ID | NAME | SEX | AGE | HEIGHT | WEIGHT | TEAM | NOC | GAMES | YEAR

ID → Name, Sex, Height, Weight
Year, Season → Games
Year, Season, Sport → City
ID, Year, Season → Age
ID, Year, Season, Sport, Event → Team

DEPENDÊNCIAS ENCONTRADAS

Oops...
404 Page Not Found



ERRO NOS DADOS?



Algumas curiosidades!

DÚVIDA

É possível um mesmo atleta ganhar mais de uma medalha na mesma edição das olimpíadas, no mesmo esporte e na mesma modalidade?



SIM!

William Exshaw

Personal information

Full name William Edgar Exshaw

Nationality British

Born 15 February 1866

Arcachon, Second French Empire

Died 16 March 1927 (aged 61)

Valencia, Spain

Sailing career

Class(es) 2–3 ton

Open class

Club Société Nautique de Gironde

Medal record

[hide]

Sailing

Representing  Mixed team

Olympic Games

 1900 Paris 2 to 3 ton 1st race

 1900 Paris 2 to 3 ton 2nd race

DÚVIDA

É possível jogos de uma mesma edição das olimpíadas ocorrerem em diferentes continentes?



SIM!

1956 Summer Olympics

Article Talk

From Wikipedia, the free encyclopedia

The **1956 Summer Olympics**, officially the **Games of the XVI Olympiad** and officially branded as **Melbourne 1956**, were an international multi-sport event held in **Melbourne, Victoria, Australia**, from 22 November to 8 December 1956, with the exception of the equestrian events, which were held in **Stockholm**, Sweden, in June 1956.

These Games were the first to be staged in the **Southern Hemisphere** and **Oceania**, as well as the first to be held outside Europe and North America. Melbourne is the most southerly city ever to host the Olympics. Due to the Southern Hemisphere's seasons being different from those in the Northern Hemisphere, the 1956 Games did not take place at the usual time of year, because of the need to hold the events during the warmer weather of the host's spring/summer (which corresponds to the Northern Hemisphere's autumn/winter), resulting in the only summer games ever to be held in November and December. Australia hosted the Games for a second time in **2000** in **Sydney, New South Wales**, and will host them again in **2032** in **Brisbane, Queensland**.

The Olympic equestrian events could not be held in Melbourne due to Australia's strict quarantine regulations,^[2] so they were held in Stockholm five months earlier. This was the second time the Olympics were not held entirely in one country, the first being the **1920 Summer Olympics** in **Antwerp**, Belgium, with some events taking place in **Ostend, Belgium** and **Amsterdam, Netherlands**. Despite uncertainties and various complications encountered during the preparations, the 1956 Games went ahead in Melbourne as planned and turned out to be a success. Started during the 1956 Games was the "Parade of Athletes" at the closing ceremonies.

Nine teams boycotted the Games for various reasons.^[3] Four teams (Egypt, Iraq, Cambodia and Lebanon) boycotted in response to the **Suez Crisis**, in which **Egypt** was invaded by **Israel, France** and the **United Kingdom**.^{[4][5]} Four teams (the Netherlands, Spain, Liechtenstein and Switzerland) boycotted in response to the **Soviet invasion of Hungary**,^{[5][6]} and the **People's Republic of China**'s boycott was in response to a dispute with the **Republic of China** over the right to represent China.^{[7][8]} The **Soviet Union** won the most gold and overall medals at these Games.

One of the most notable events of the games was a controversial water polo match between the Soviet Union and the defending champions, **Hungary**. The Soviet Union had recently suppressed an **anti-authoritarian revolution** in Hungary and violence broke out between the teams during the match, resulting in numerous injuries. When Hungary's **Ervin Zádor** suffered bleeding after being punched by Soviet Union's **Valentin Prokópov**, spectators attempted to join the violence, but they were blocked by police. The match was cancelled, with Hungary being declared the winner because they were in the lead.

81 languages

Read Edit View history Tools

Games of the XVI Olympiad



Emblem of the 1956 Summer Olympics

Host city Melbourne, Australia / Stockholm, Sweden

Nations 72

Athletes 3,314 (2,938 men, 376 women)

Events 151 in 17 sports (23 disciplines)

Opening 22 November 1956

Closing 8 December 1956

Opened The Duke of Edinburgh^{[1][a]}
by

Cauldron Ron Clarke^[1]

Stadium Melbourne Cricket Ground

Summer

← Helsinki 1952 Rome 1960 →

Winter

← Cortina 1956 Squaw Valley 1960 →

Part of a series on

1956 Summer Olympics

- Bid process ([bid details](#))
- Venues
- Broadcasters
- Torch relay
- Opening ceremony ([flag bearers](#))
- Medal table ([medalists](#))
- Closing ceremony
- Event calendar
- World and Olympic records

IOC · AOC

AS OLÍMPIADAS DE VERÃO DE 1956 OCORRERAM EM MELBOURNE, AUSTRÁLIA (OCEANIA), E ESTOCOLMO, SUÉCIA (EUROPA)

DÚVIDA

É possível um atleta ganhar duas medalhas de ouro no mesmo esporte, na mesma edição das olimpíadas e competindo para dois países diferentes ao mesmo tempo?



NÃO



ABORDAGEM RELACIONAL

Athlete(ID, Name, Sex, Height, Weight)

Edition(Year, Season)

Competitor(ID, Year, Season)

ID referencia Athlete

(Year, Season) referenciam Edition

Game(Year, Season, Sport, City)

(Year, Season) referenciam Edition

Member(ID, Year, Season, Sport, Event, Team)

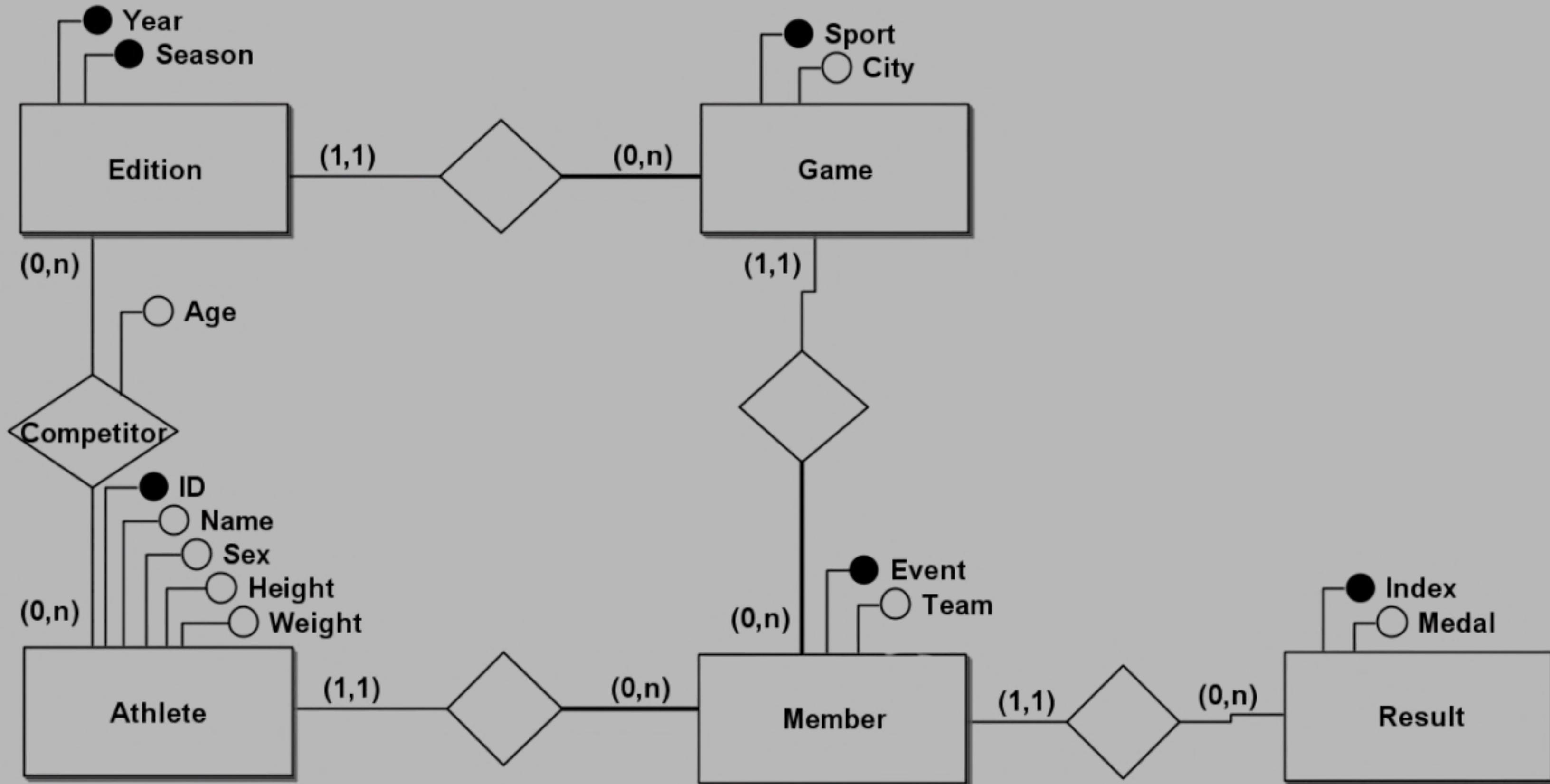
ID referencia Athlete

Year, Season, Sport referenciam Game

Result(Index, ID, Year, Season, Sport, Event, Medal)

(ID, Year, Season, Sport, Event) referenciam Member

DIAGRAMA ER



MODELO FINAL





ALIMENTAÇÃO DO BANCO DE DADOS



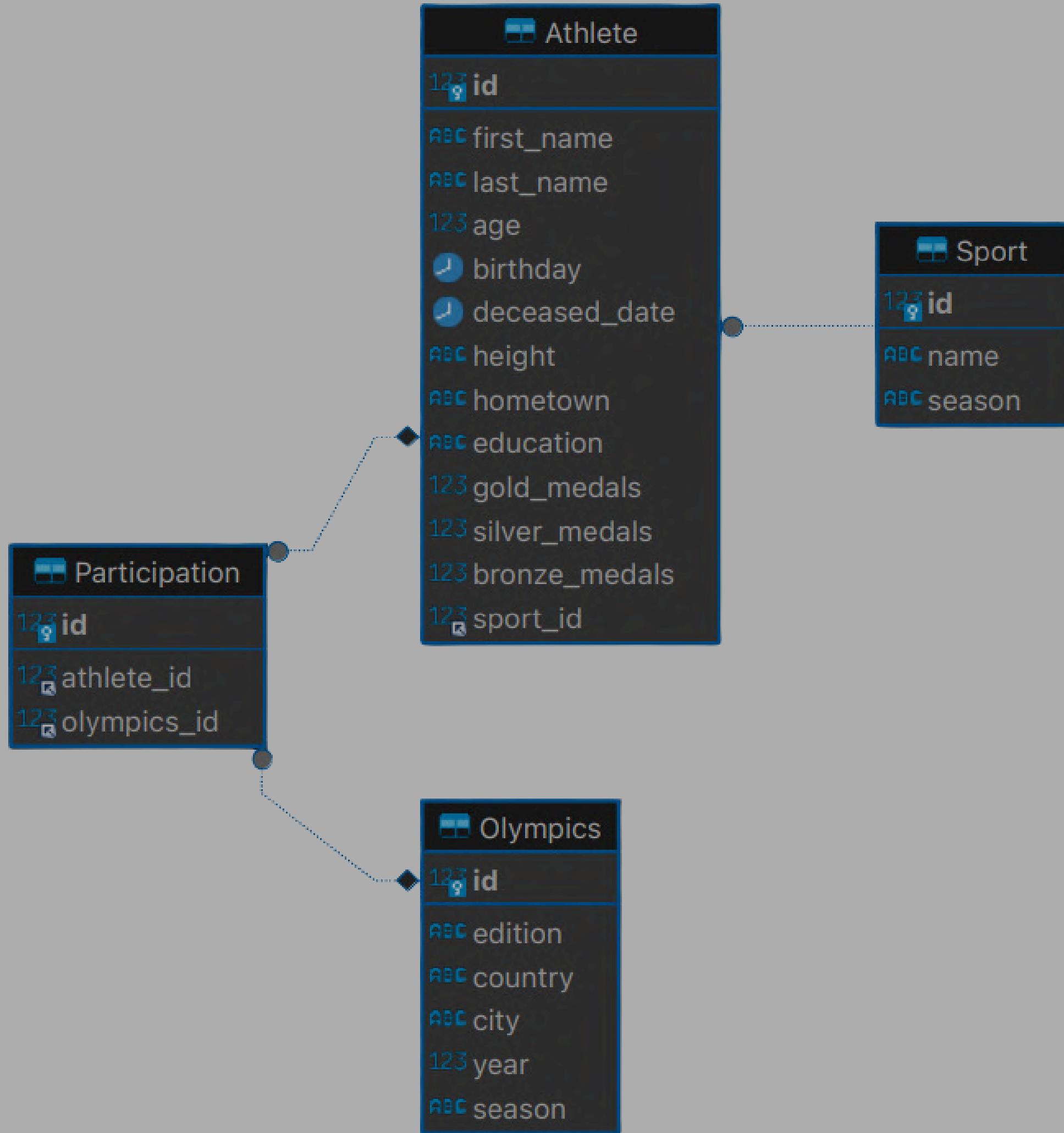
6281

ATLETAS DISTINTOS

A large American flag is flying in the wind against a dark, cloudy sky. The stars and stripes are clearly visible, though slightly blurred by motion.

FASE 2

MODELO



COMPARAÇÃO ENTRE OS MÓDELOS

TABELA OLYMPICS

REALIZAR MATCH COM O CAMPO "YEAR"
E COM O CAMPO "SEASON".

IMPORTAMOS A COLUNA "COUNTRY",
REALIZANDO A TRADUÇÃO DOS NOMES
DOS PAÍSES.

TABELA ATHLETE

JUNTARAM-SE A COLUNA "FIRST_NAME" E
"LAST_NAME" PARA A COLUNA "NAME".

CONVERSÃO DA "HEIGHT" PARA CENTÍMETROS.

AS COLUNAS "HOMETOWN", "EDUCATION",
"BIRTHDAY" E "DECEASED_DATE" SÃO ADICIONADAS.

TABELA SPORT

EQUIVALE A NOSSA TABELA "SPORTS". OS ESPORTES PODEM SER CORRESPONDIDOS PELO NOME OU ADICIONADOS QUANDO NÃO PRESENTES.

'CANOE/KAYAK' -> 'CANOEING'

'TRACK AND FIELD' -> 'ATHLETICS'

TABELA PARTICIPATION

EQUIVALE A NOSSA TABELA "COMPETITORS", PORÉM DEVERÁ SER CORRESPONDIDA COM NOVOS IDENTIFICADORES. A "AGE" PODERÁ SER NULO.

PROBLEMAS

Falta de padronização na
formatação da altura
Múltiplas unidades de
medida e caracteres
especiais

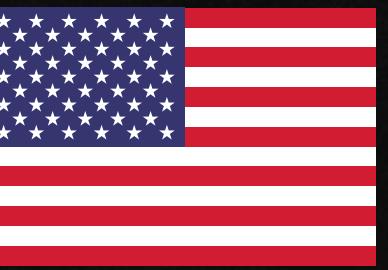
Participações de atletas
duplicadas

Inconsistências de
linguagem

ALGUMAS DIFERENÇAS



- MEDALHA POR EDIÇÃO,
MODALIDADE E ATLETA.
- EDIÇÕES DE
OLIMPÍADAS EM CIDADES
DIFERENTES.



- QUANTIDADE DE CADA
MEDALHA GANHA POR
ATLETA.
- SOMENTE UMA CIDADE
POR EDIÇÃO.

OPÇÕES



(Manter a nossa e adaptar a deles) - criar uma versão que possibilita membros sem edição, sem modalidade e sem time, mas com esporte, e criar medalhas que se referem a esse membro praticamente sem informações.

(Manter a deles e adaptar a nossa) - manter apenas uma única tabela que armazena a quantidade de medalhas que um atleta ganhou em determinado esporte, perdendo os dados de edição, de modalidade e de time.

(Meio termo) - remover o time e a modalidade, mantendo a edição e o esporte. As medalhas deles teriam a edição nula.

(Manter tudo) - juntar members e results em uma única tabela, utilizando nulos para a edição, a modalidade e o time.

DÚVIDA

VALE A PENA REDUZIR A QUANTIDADE DE DADOS PARA TER UMA
INTEGRAÇÃO MELHOR DIMINUINDO O NÚMERO DE VALORES
DESCONHECIDOS?

OPÇÕES



(Manter a nossa e adaptar a deles) - criar uma versão que possibilita membros sem edição, sem modalidade e sem time, mas com esporte, e criar medalhas que se referem a esse membro praticamente sem informações.

(Manter a deles e adaptar a nossa) - manter apenas uma única tabela que armazena a quantidade de medalhas que um atleta ganhou em determinado esporte, perdendo os dados de edição, de modalidade e de time.

(Meio termo) - remover o time e a modalidade, mantendo a edição e o esporte. As medalhas deles teriam a edição nula.

(Manter tudo) - juntar members e results em uma única tabela, utilizando nulos para a edição, a modalidade e o time.



CONSULTAS E DESCOBERTAS

ATLETAS QUE PARTICIPARAM DE OLIMPÍADAS DESDE 2010

```
SELECT
    name
FROM
    athlete
    NATURAL JOIN participant
    NATURAL JOIN edition
WHERE
    edition.year >= 2010
GROUP BY
    athleteId;
```

ABC name
Kieron Robert Achara
Nicola Virginia Adams
Christopher Thomas "Chris" Adcock
Margaret Adetutu Adeoye
Rebecca "Becky" Adlington
Charles Benedict "Ben" Ainslie
Yamil Aldama Pozo (-Dodds)
Dominique Jayne Allen
Joseph Michael "Joe" Allen
Sophie Nicole Allen
Olivia Elizabeth N. Allison-Federici
Eniola "Eni" Aluko
Rose Anderson
Robert Michael Archibald, Jr.
Elizabeth Mary "Lizzie" Armitstead (-D
Anita Amma Ankyewah Asante
James William Austin
Daniel James Awde
Andrew James "Andy" Baddeley
Andrew John S. Baggaley

ATLETAS QUE GANHARAM MEDALHAS EM 2016

```
SELECT
    name
FROM
    athlete
    NATURAL JOIN result
    NATURAL JOIN edition
WHERE
    edition.year = 2016
    AND result.medalId IS NOT NULL
GROUP BY
    athleteId;
```

ABC name
Nicola Virginia Adams
Joshua Buatsi
Joseph "Joe" Joyce
Marcus John Ellis
Christopher Phillip "Chris" Langridge
Geraldina Rachel "Dina" Asher-Smith
Eilidh Child-Doyle
Emily Jane Diamond
Jessica Phyllis Ennis-Hill
Mohamed Muktar Jama "Mo" Farah
Desiree Latifah N. Henry
Sophie Hitchon
Kelly Massey
Daryll Saskia Neita
Christine Ijeoma Chika Ohuruogu
Nwanyika Jenete C. "Anyika" Onuora
Asha Solette Philip
Gregory James "Greg" Rutherford
Saskia Clark
Nicholas Charles "Nick" Dempsey
Hannah Louise Mills
Giles Lyndon Scott
Karen Bennett

ATLETAS QUE PARTICIPARAM DE MAIS DE UMA OLIMPÍADA

```
SELECT
    athlete.name,
    edition.alternateTitle
FROM
    athlete
    NATURAL JOIN participant
    NATURAL JOIN edition
WHERE
    athlete.athleteId IN (
        SELECT
            participant.athleteId
        FROM
            participant
        GROUP BY
            participant.athleteId
        HAVING
            COUNT(DISTINCT participant.editionId) > 1
    )
GROUP BY
    athlete.athleteId,
    edition.editionId
ORDER BY
    athlete.name,
    edition.alternateTitle;
```

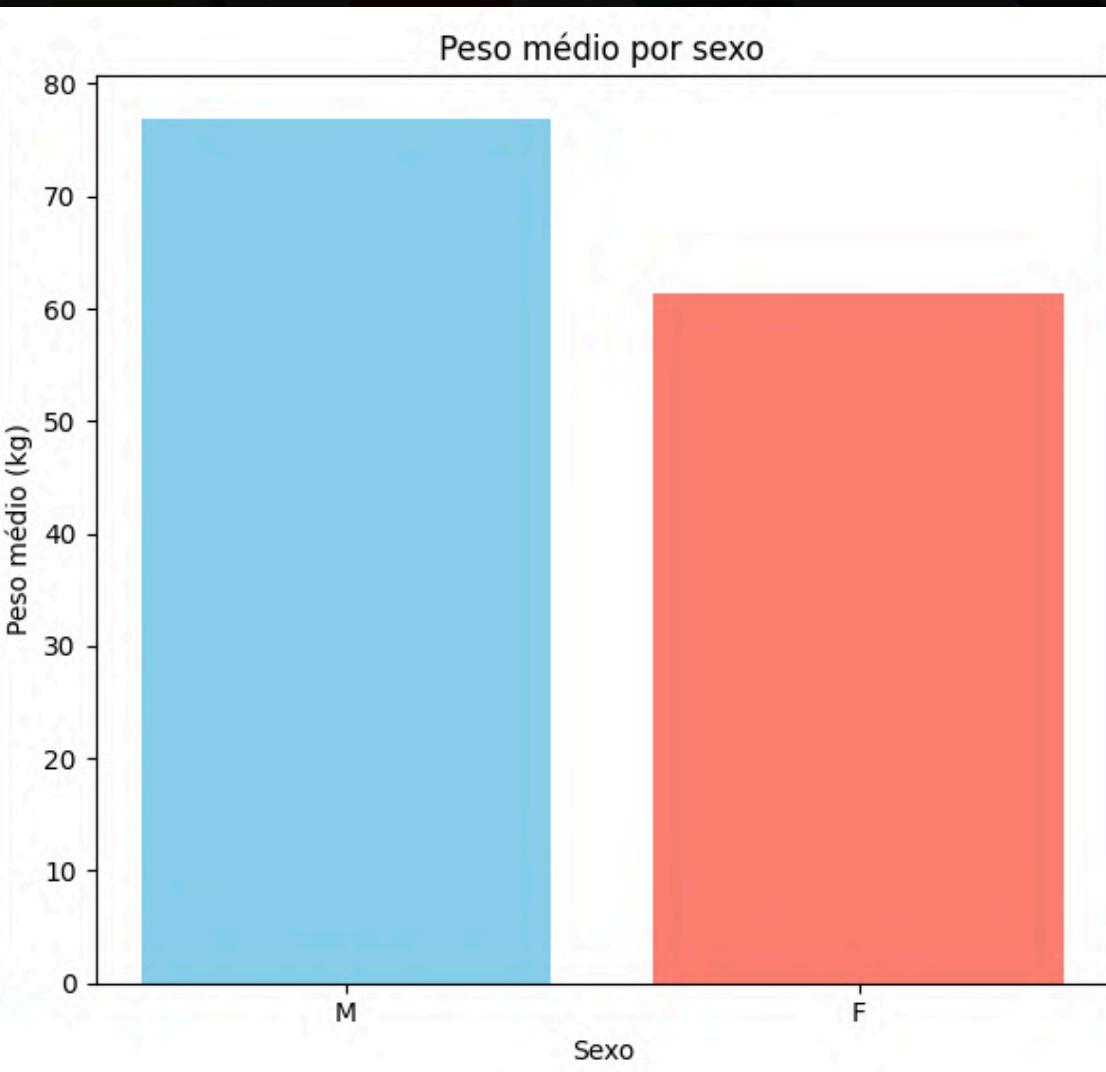
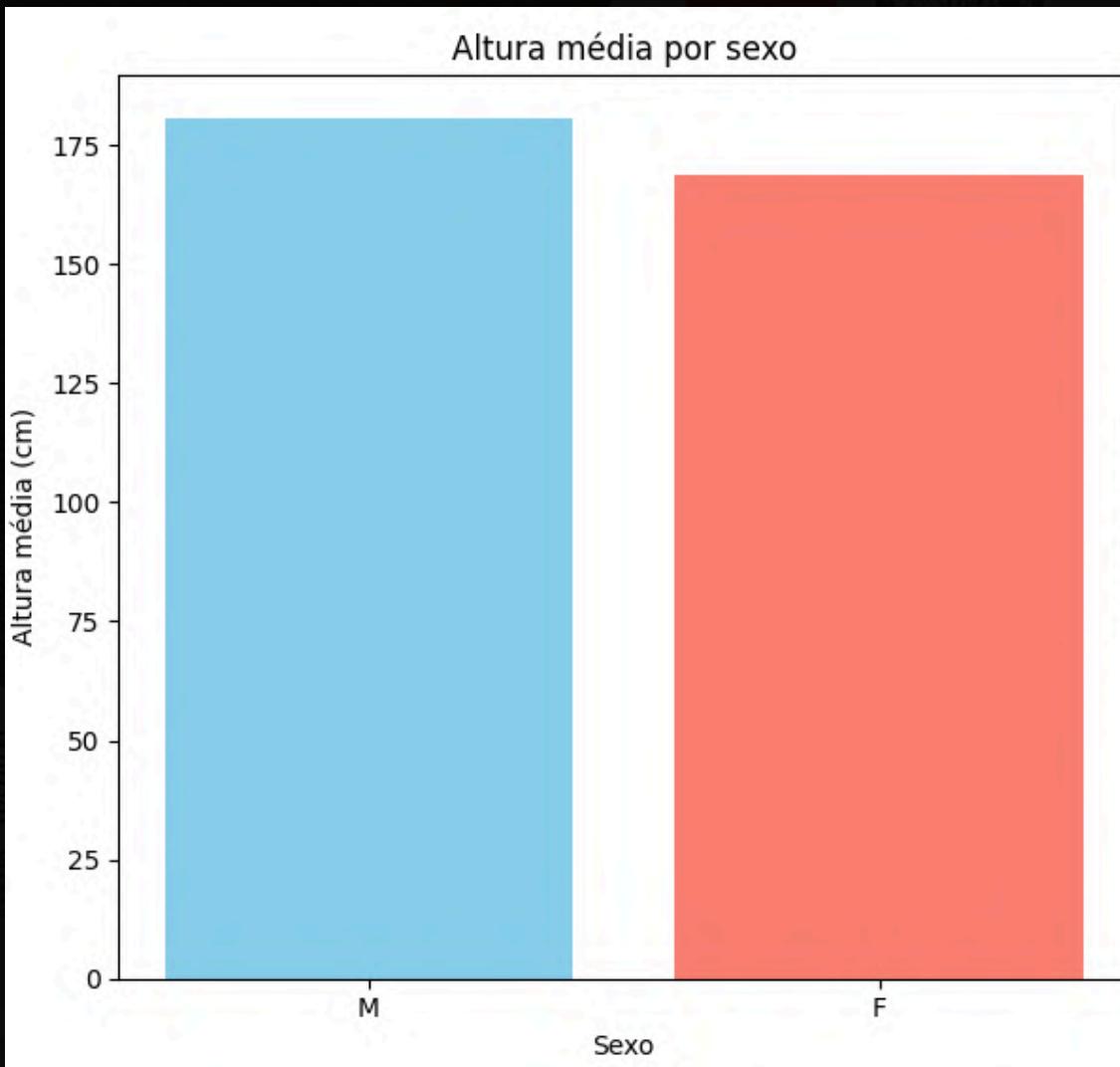
ABC name	ABC alternateTitle
A. Joshua "Josh" West	2004 Summer
A. Joshua "Josh" West	2008 Summer
Abiodun Adesola "Abi" Oyepitan	2004 Summer
Abiodun Adesola "Abi" Oyepitan	2012 Summer
Adam Ahmed R. Gemili	2012 Summer
Adam Ahmed R. Gemili	2016 Summer
Adam Joseph "AJ" Rosen	2006 Winter
Adam Joseph "AJ" Rosen	2010 Winter
Adam Laird Pengilly	2006 Winter
Adam Laird Pengilly	2010 Winter
Adam Paul Faulkner	2000 Summer
Adam Paul Faulkner	2004 Summer
Adam Ruckwood	1992 Summer
Adam Ruckwood	1996 Summer
Adam Ruckwood	2000 Summer
Adam Thorp Brown	2008 Summer
Adam Thorp Brown	2012 Summer
Adrian Charles Ellison	1984 Summer
Adrian Charles Ellison	1992 Summer
Adrian David Moorhouse	1984 Summer
Adrian David Moorhouse	1988 Summer
Adrian David Moorhouse	1992 Summer
Adrian George Curry-Steed	1992 Summer

OLIMPÍADAS QUE OCORRERAM EM MAIS DE UMA CIDADE

```
SELECT
    edition.alternateTitle,
    city.name
FROM
    edition
    NATURAL JOIN host
    NATURAL JOIN city
WHERE
    edition.editionId IN (
        SELECT
            editionId
        FROM
            host
        GROUP BY
            editionId
        HAVING
            COUNT(DISTINCT cityId) > 1
    )
GROUP BY
    editionId,
    cityId;
```

ABC alternateTitle	ABC name
1956 Summer	Stockholm
1956 Summer	Melbourne

MÉDIA DE PESO E DE ALTURA POR SEXO



```
SELECT
    sex,
    AVG(height) AS averageHeight,
    AVG(weight) AS averageWeight
FROM
    athlete
GROUP BY
    sex;
```

ABC sex	averageHeight	averageWeight
M	180.77182	76.917555
F	168.75566	61.426926
[NULL]	183.623415	[NULL]

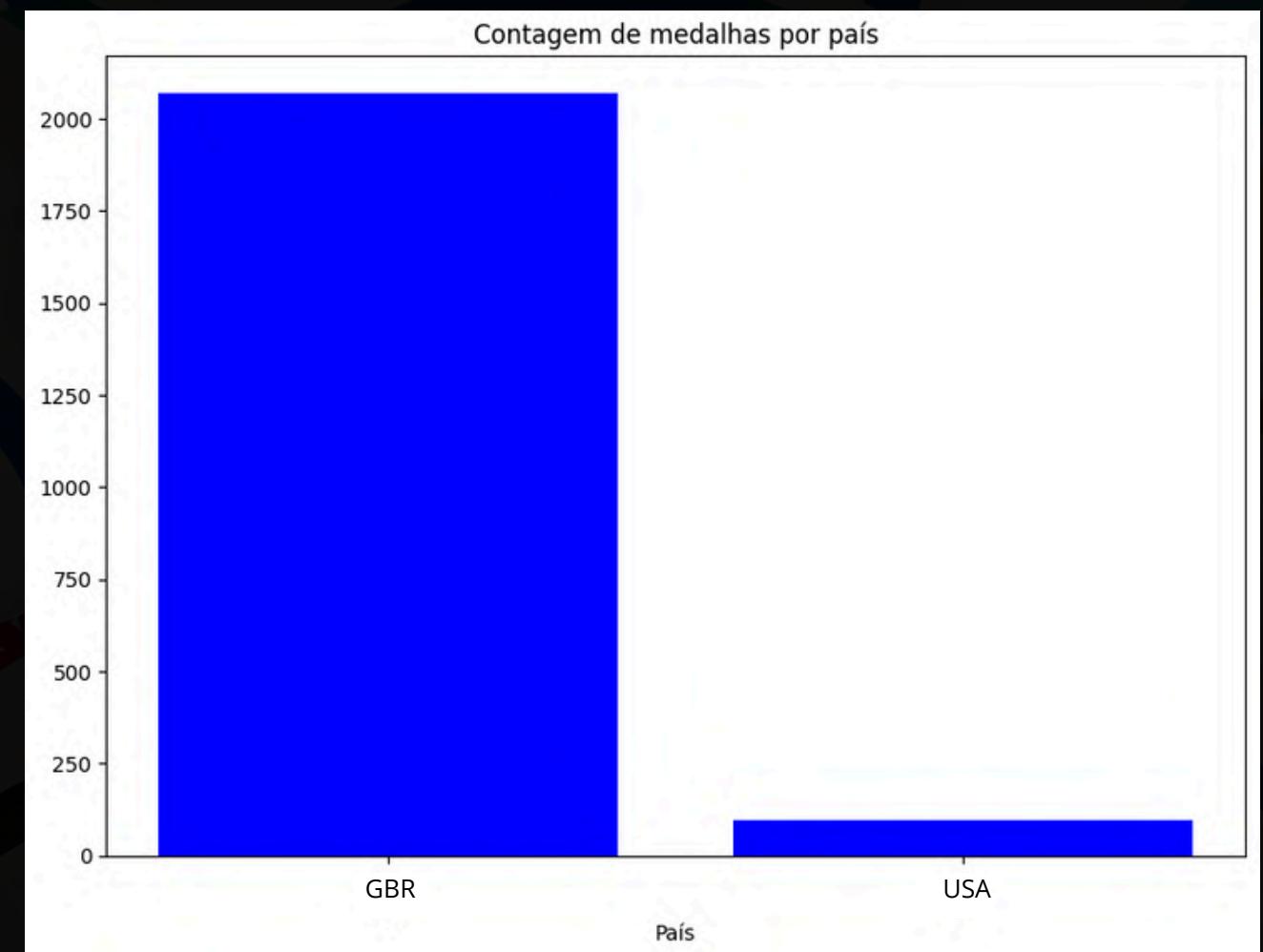
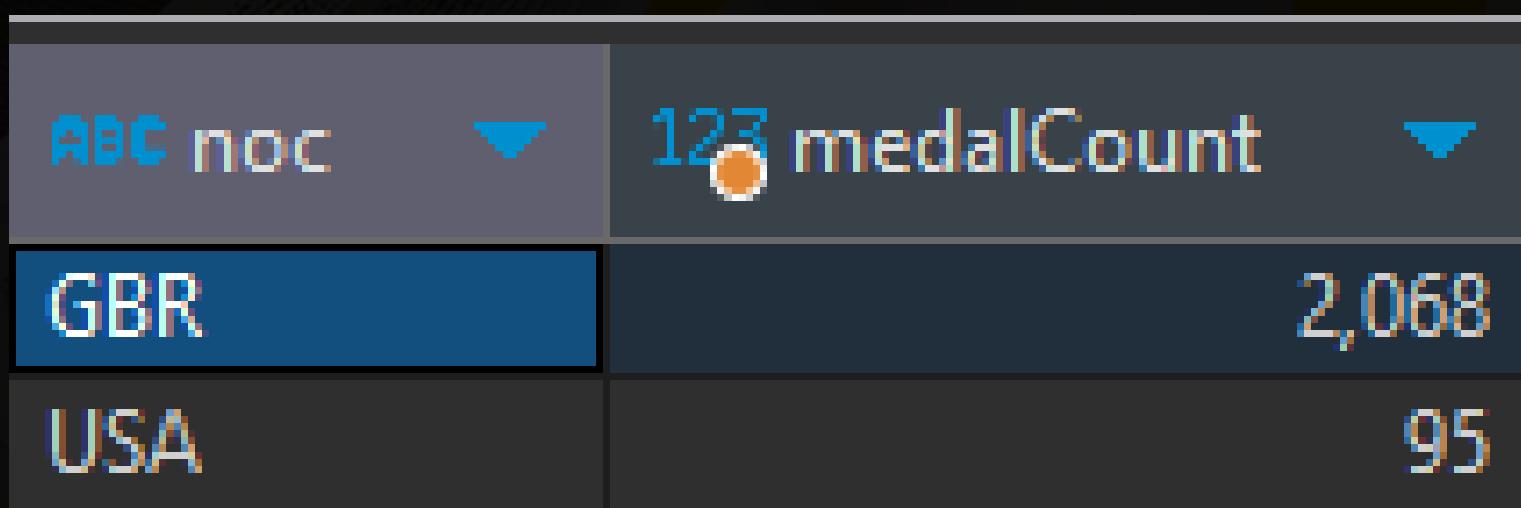
ATLETAS QUE PARTICIPARAM EM MAIS DE UM ESPORTE

```
SELECT
    athlete.name AS athleteName,
    COUNT(DISTINCT participant.sportId) AS sportCount
FROM
    athlete
        NATURAL JOIN participant
GROUP BY
    athlete.athleteId
HAVING
    sportCount > 1
ORDER BY
    sportCount DESC;
```

ABC athleteName	123 sportCount
Launceston Elliot	4
Edward "Ned" Barrett	3
Allyn Condon	2
Arthur E. Hawkins	2
Charles Gordon MacIvor	2
Charles Percy Digby Legard	2
Clifford Keith Wain Schellenberg	2
Albert Edward Dickin	2
Colin William Ashburner Campbell	2
Craig Brown	2
David Mercer	2
Donald Whittall	2
Douglas William Godfree	2
Edgar Isaac Seligman	2
Colin Lewis	2
Edward Percival "Percy" Peter	2
Evan Baillie Noel	2
Frederick Andrew	2
Frederick Harkness Humphreys	2
Frederick Stapleton	2
George Stuart Robertson	2
Harold Edward Annison	2
Hugh Durant	2
James McKenzie	2
Jeremy James Palmer-Tomkinson	2
John Alan Adolphus Herbert	2

NÚMERO DE MEDALHAS POR PAÍS

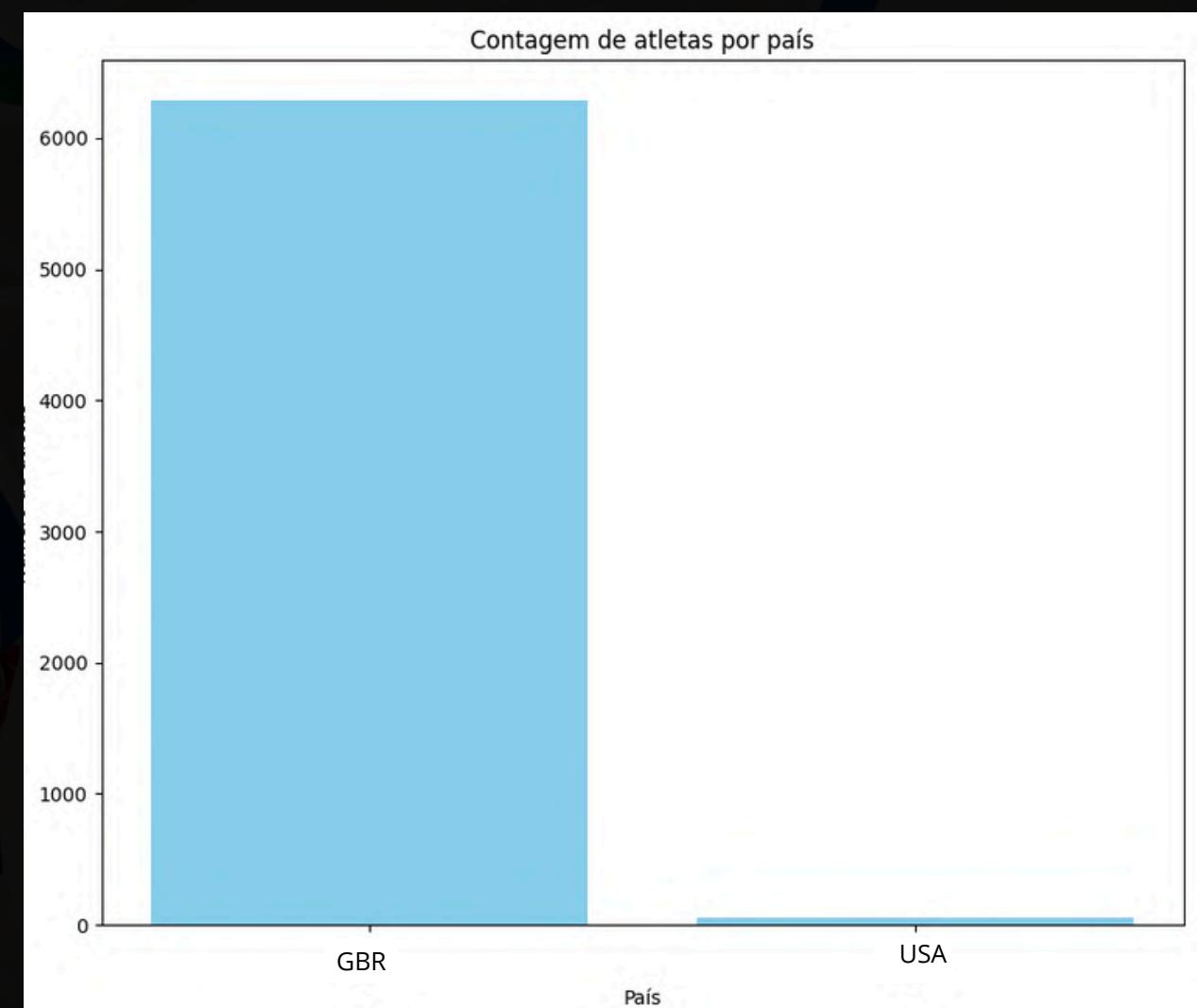
```
SELECT
    athlete.noc AS noc,
    COUNT(result.medalId) AS medalCount
FROM
    athlete
    NATURAL JOIN result
GROUP BY
    athlete.noc
ORDER BY
    medalCount DESC;
```



NÚMERO ATLETAS POR PAÍS

```
SELECT
    noc AS country,
    COUNT(*) AS athleteCount
FROM
    athlete
GROUP BY
    noc;
```

ABC country	123 athleteCount
GBR	6,281
USA	52



ATLETAS QUE GANHARAM MAIS DE UMA MEDALHA NA MESMA EDIÇÃO DAS OLIMPÍADAS, NO MESMO ESPORTE E NA MESMA MODALIDADE

```
SELECT
    athlete.name AS athleteName,
    edition.year AS editionYear,
    edition.season AS editionSeason,
    sport.name AS sportName,
    event.name AS eventName,
    medal.name AS medalName
FROM
    athlete
    JOIN result ON athlete.athleteId = result.athleteId
    JOIN edition ON result.editionId = edition.editionId
    JOIN medal ON result.medalId = medal.medalId
    JOIN event ON result.eventId = event.eventId
    JOIN sport ON event.sportId = sport.sportId
WHERE
    (athlete.athleteId, edition.editionId, event.eventId) IN (
        SELECT
            result.athleteId,
            result.editionId,
            result.eventId
        FROM
            result
        GROUP BY
            result.athleteId,
            result.editionId,
            result.eventId
        HAVING
            COUNT(result.medalId) > 1
    )
ORDER BY
    athlete.name,
    edition.year,
    edition.season,
    sport.name,
    event.name,
    medal.name;
```

ABC athleteName ▾	123 editionYear ▾	ABC editionSeason ▾	ABC sportName ▾	ABC eventName ▾	ABC medalName ▾
William Edgar Exshaw	1,900	Summer	Sailing	Sailing Mixed 2-3 Ton	Gold
William Edgar Exshaw	1,900	Summer	Sailing	Sailing Mixed 2-3 Ton	Gold

ATLETAS QUE GANHARAM MAIS DE UMA MEDALHA NA MESMA EDIÇÃO DAS OLIMPIADAS

```
SELECT
    athlete.name AS athleteName,
    edition.year AS editionYear,
    edition.season AS editionSeason,
    sport.name AS sportName,
    event.name AS eventName,
    medal.name AS medalName
FROM
    athlete
    JOIN result ON athlete.athleteId = result.athleteId
    JOIN edition ON result.editionId = edition.editionId
    JOIN medal ON result.medalId = medal.medalId
    JOIN event ON result.eventId = event.eventId
    JOIN sport ON event.sportId = sport.sportId
WHERE
    (athlete.athleteId, edition.editionId) IN (
        SELECT
            result.athleteId,
            result.editionId
        FROM
            result
        GROUP BY
            result.athleteId,
            result.editionId
        HAVING
            COUNT(result.medalId) > 1
    )
ORDER BY
    athlete.name,
    edition.year,
    edition.season,
    sport.name,
    event.name,
    medal.name;
```

ABC athleteName	123 editionYear	ABC editionSeason	ABC sportName	ABC eventName	ABC medalName
Adam George Peaty	2,016	Summer	Swimming	Swimming Men's 100 m	Gold
Adam George Peaty	2,016	Summer	Swimming	Swimming Men's 4 x 100 m	Silver
Alan Wharmby Jackson	1,956	Summer	Cycling	Cycling Men's Road Race	Bronze
Alan Wharmby Jackson	1,956	Summer	Cycling	Cycling Men's Road Race	Silver
Albert George Hill	1,920	Summer	Athletics	Athletics Men's 1,500 m	Gold
Albert George Hill	1,920	Summer	Athletics	Athletics Men's 3,000 m	Silver
Albert George Hill	1,920	Summer	Athletics	Athletics Men's 800 m	Gold
Albert Joseph Kempster	1,912	Summer	Shooting	Shooting Men's Dueling	Bronze
Albert Joseph Kempster	1,912	Summer	Shooting	Shooting Men's Free Pistol	Bronze
Alexander Elsdon Maun	1,908	Summer	Shooting	Shooting Men's Trap	Bronze
Alexander Elsdon Maun	1,908	Summer	Shooting	Shooting Men's Trap, Team	Gold
Alfred Ernest Tysoe	1,900	Summer	Athletics	Athletics Men's 5,000 m	Gold
Alfred Ernest Tysoe	1,900	Summer	Athletics	Athletics Men's 800 m	Gold
Algernon Maudslay	1,900	Summer	Sailing	Sailing Mixed 0.5-1 Ton	Gold
Algernon Maudslay	1,900	Summer	Sailing	Sailing Mixed Open	Gold
Allan Louis Neville Jay	1,960	Summer	Fencing	Fencing Men's epee, Individual	Silver
Allan Louis Neville Jay	1,960	Summer	Fencing	Fencing Men's epee, Team	Silver
Allan Wipper Wells	1,980	Summer	Athletics	Athletics Men's 100 m	Gold
Allan Wipper Wells	1,980	Summer	Athletics	Athletics Men's 200 m	Silver
Althea Kristina "Tina" Codd	2,008	Summer	Equestrianism	Equestrianism Mixed Team	Bronze
Althea Kristina "Tina" Codd	2,008	Summer	Equestrianism	Equestrianism Mixed Team	Bronze
Andrew Barron "Andy" Ibbotson	2,012	Summer	Tennis	Tennis Men's Singles	Gold
Andrew Barron "Andy" Ibbotson	2,012	Summer	Tennis	Tennis Mixed Doubles	Silver
Andrew John "Andy" Holness	1,988	Summer	Rowing	Rowing Men's Coxed Four	Bronze
Andrew John "Andy" Holness	1,988	Summer	Rowing	Rowing Men's Coxless Four	Gold
Ann Elizabeth Packer (-Elliott)	1,964	Summer	Athletics	Athletics Women's 400 m	Silver
Ann Elizabeth Packer (-Elliott)	1,964	Summer	Athletics	Athletics Women's 800 m	Gold
Arthur B. J. Norris	1,900	Summer	Tennis	Tennis Men's Doubles	Bronze
Arthur B. J. Norris	1,900	Summer	Tennis	Tennis Men's Singles	Bronze
Arthur Godfrey Kilner Bradford	1,936	Summer	Athletics	Athletics Men's 4 x 400 m	Gold
Arthur Godfrey Kilner Bradford	1,936	Summer	Athletics	Athletics Men's 400 m	Silver
Arthur James Robertson	1,908	Summer	Athletics	Athletics Men's 3 mile, Individual	Gold
Arthur James Robertson	1,908	Summer	Athletics	Athletics Men's 3,200 m	Silver
Arthur William Charles "Bill" Tait	1,908	Summer	Tennis	Tennis Men's Doubles, Team	Gold
Arthur William Charles "Bill" Tait	1,908	Summer	Tennis	Tennis Men's Singles, Team	Gold
Benjamin "Ben" Jones	1,908	Summer	Cycling	Cycling Men's 20 kilometer	Silver
Benjamin "Ben" Jones	1,908	Summer	Cycling	Cycling Men's 5,000 m	Gold
Benjamin "Ben" Jones	1,908	Summer	Cycling	Cycling Men's Team Pursuit	Gold
Bernard Boverton Redwood	1,908	Summer	Motorboating	Motorboating Mixed Boat	Gold
Bernard Boverton Redwood	1,908	Summer	Motorboating	Motorboating Mixed Crew	Gold
Bradley Marc Wiggins	2,004	Summer	Cycling	Cycling Men's Individual Pursuit	Gold
Bradley Marc Wiggins	2,004	Summer	Cycling	Cycling Men's Madison	Bronze

PORCENTAGEM DE PARTICIPANTES POR GÊNERO

```
WITH
    allParticipants AS (
        SELECT
            COUNT(DISTINCT athlete.athleteId) totalParticipantCount
        FROM
            participant
            JOIN athlete ON athlete.athleteId = participant.athleteId
        WHERE
            athlete.sex IS NOT NULL
    )
SELECT
    athlete.sex sex,
    COUNT(*) participantCount,
    ROUND(
        (COUNT(*) * 100.0) / allParticipants.totalParticipantCount,
        2
    ) participantPercentage
FROM
    athlete,
    allParticipants
WHERE
    sex IS NOT NULL
    AND athlete.athleteId IN (
        SELECT
            athleteId
        FROM
            participant
    )
GROUP BY
    athlete.sex,
    allParticipants.totalParticipantCount;
```

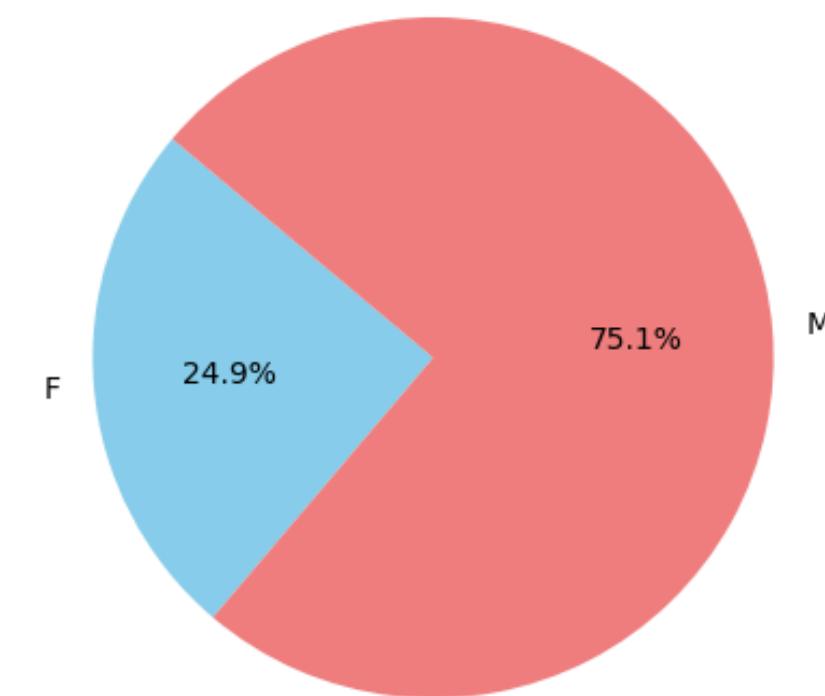
ABC sex	123 participantCount	123 participantPercentage
M	4,716	75.08
F	1,565	24.92

PORCENTAGEM DE MEDALHAS POR GÊNERO

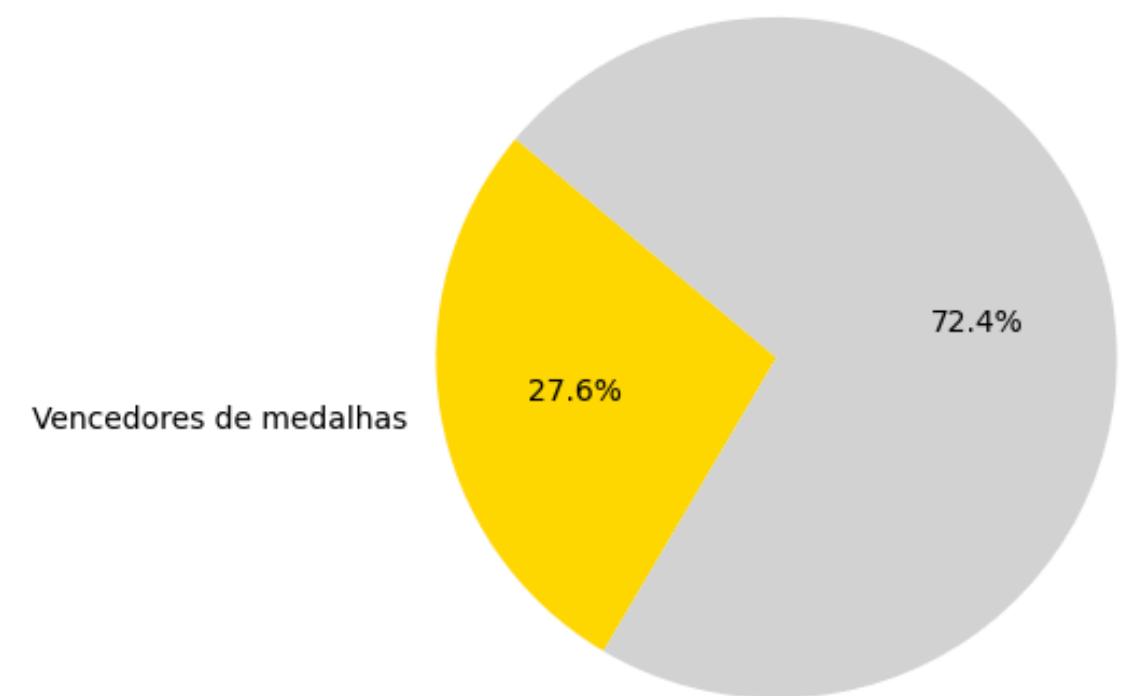
```
WITH
    minimumResult AS (
        SELECT
            result.athleteId,
            MIN(result.medalId) medalId
        FROM
            result
        GROUP BY
            athleteId
    )
SELECT
    athlete.sex sex,
    COUNT(minimumResult.medalId) medalWinnerCount,
    ROUND(
        (COUNT(minimumResult.medalId) * 100.0) / COUNT(*),
        2
    ) medalWinnerPercentage
FROM
    athlete
    NATURAL LEFT JOIN minimumResult
WHERE
    athlete.athleteId IN (
        SELECT
            athleteId
        FROM
            participant
    )
GROUP BY
    athlete.sex;
```

ABC sex	123 medalWinnerCount	123 medalWinnerPercentage
M	1,303	27.63
F	298	19.04
[NULL]	52	100

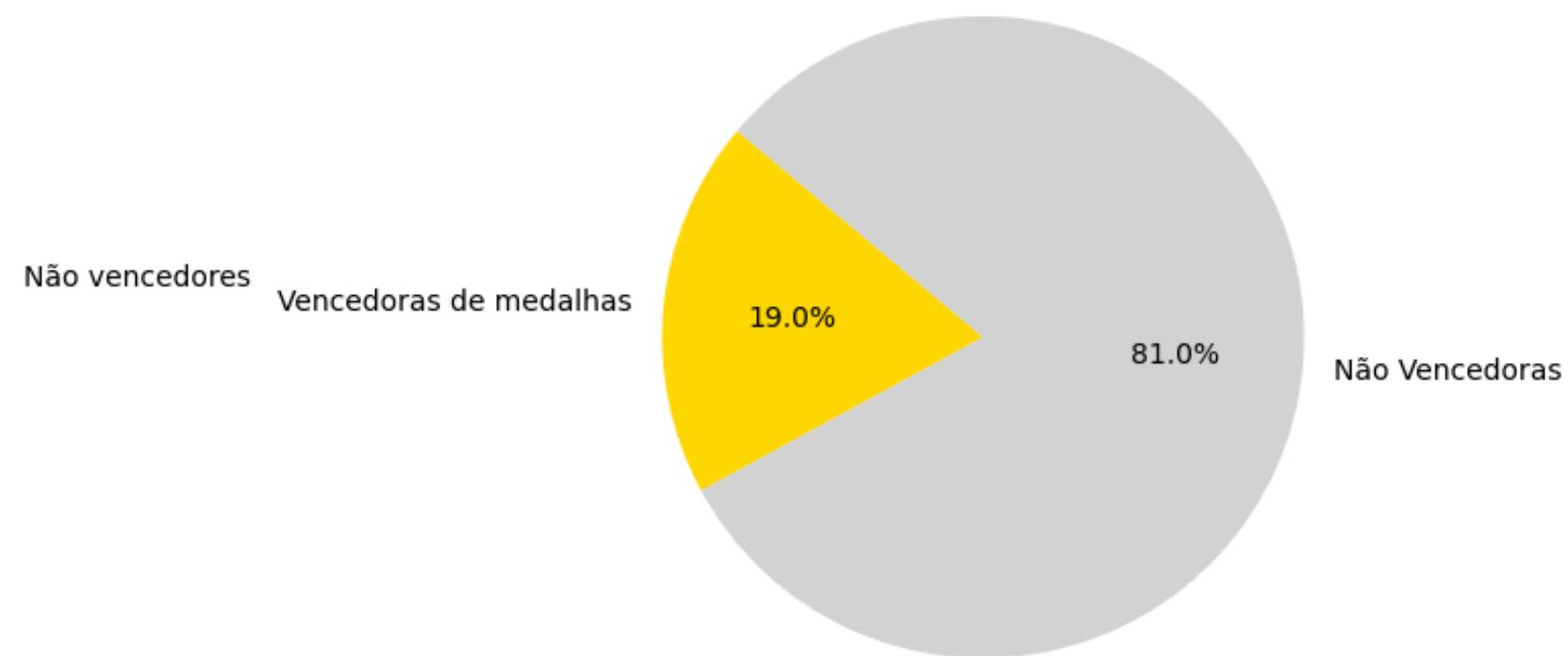
Participação por gênero



Relação de vitória entre participantes masculinos



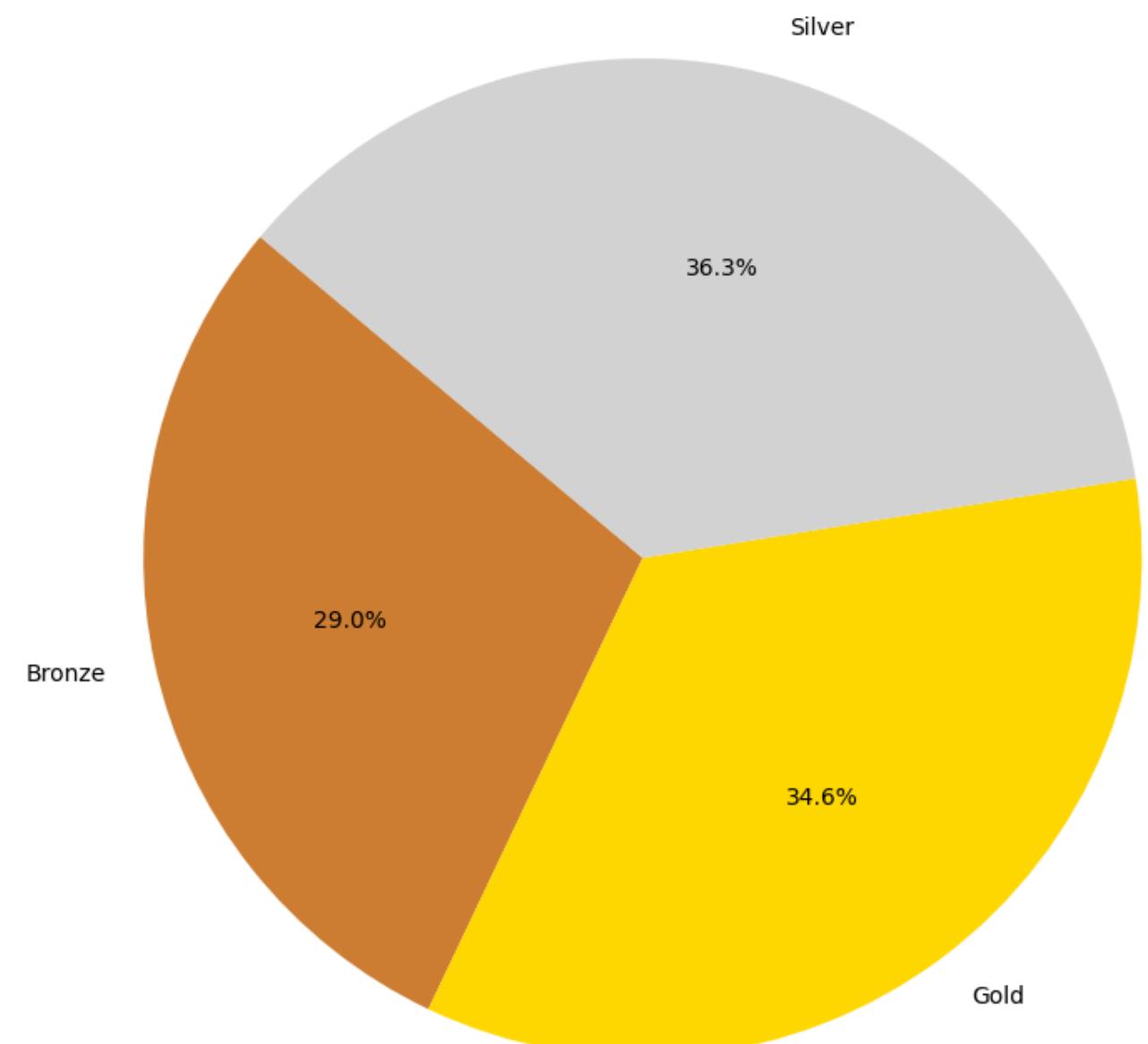
Relação de vitória entre participantes femininos



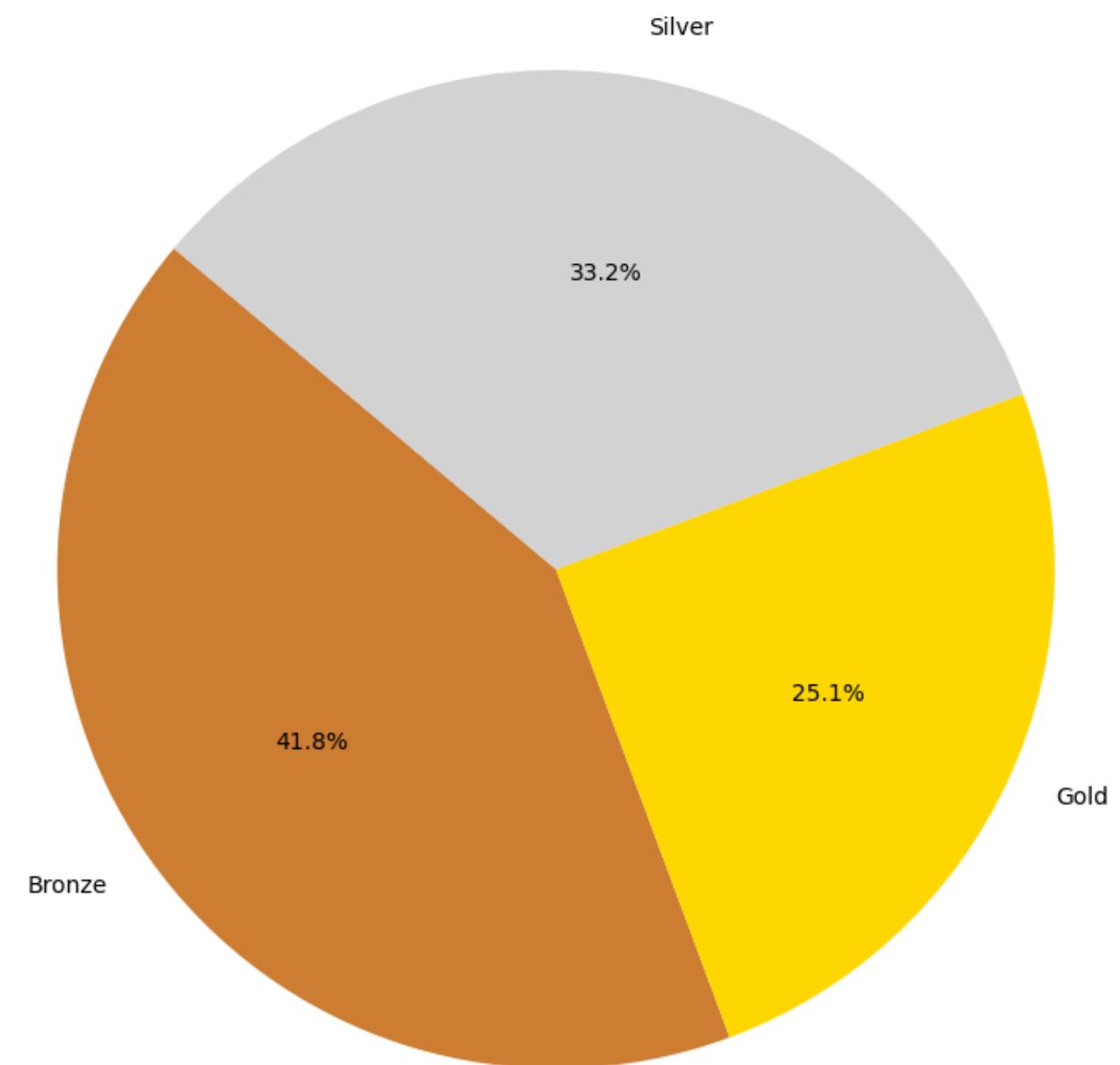
PORCENTAGEM DE MEDALHA DE CADA TIPO POR GÊNERO

```
SELECT
    athlete.sex,
    medal.name,
    COUNT(result.medalId) AS medalCount,
    ROUND(
        (COUNT(result.medalId) * 100.0) / total.medalCount,
        2
    ) AS medalPercentage
FROM
    athlete
    JOIN result ON athlete.athleteId = result.athleteId
    JOIN medal ON result.medalId = medal.medalId
    JOIN (
        SELECT
            athlete.sex,
            COUNT(result.medalId) AS medalCount
        FROM
            athlete
            JOIN result ON athlete.athleteId = result.athleteId
        GROUP BY
            athlete.sex
    ) AS total ON athlete.sex = total.sex
GROUP BY
    athlete.sex,
    medal.medalId;
```

Distribuição de medalhas - masculino



Distribuição de medalhas - feminino



ABC sex ↑ ↓	ABC name ↓	123 medalCount ↓	123 medalPercentage ↓
F	Bronze	165	41.77
F	Gold	99	25.06
F	Silver	131	33.16
M	Bronze	486	29.05
M	Gold	579	34.61
M	Silver	608	36.34

PERGUNTAS?

Fique à vontade para compartilhar sua opinião.



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