

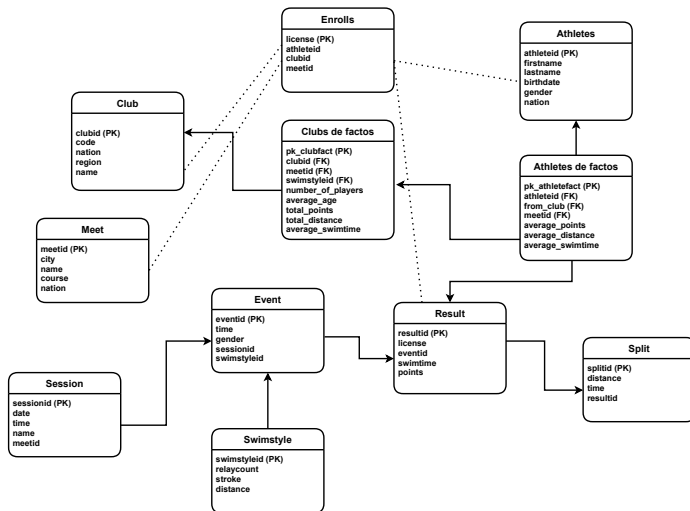
Advanced Topics in Databases

Practical Assignment

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Database



Average Age

```
SELECT AVG(age(birthdate))  
FROM annp_final.athlete;
```

- ▶ **Average Age:** 46 years, 6 months and 31 days.

Youngest Athlete

```
SELECT *  
FROM annp_final.athlete  
ORDER BY age(birthdate) ASC  
LIMIT 1;
```

- ▶ **Name:** Ana Mónica Eloi
- ▶ **Gender:** Female
- ▶ **Birthdate:** 29/12/1996
- ▶ **Age:** 25 years

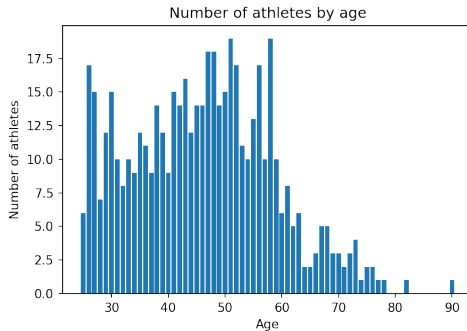
Oldest Athlete

```
SELECT *  
FROM annp_final.athlete  
ORDER BY age(birthdate) DESC  
LIMIT 1;
```

- ▶ **Name:** Virgílio Zacarias Costa
- ▶ **Gender:** Male
- ▶ **Birthdate:** 21/07/1931
- ▶ **Age:** 90 years

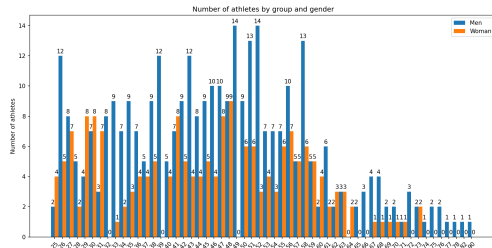
Athletes by Age

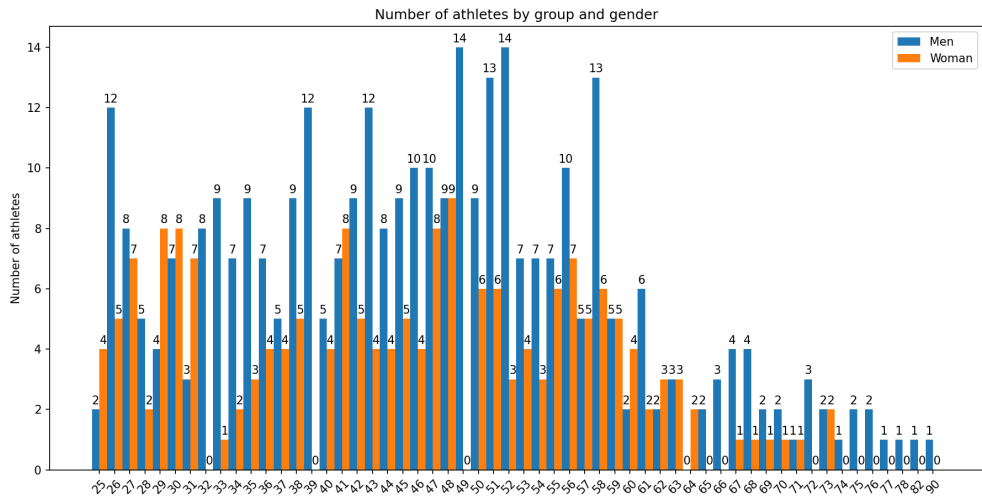
```
SELECT
    COUNT(*),
    EXTRACT(YEAR FROM age(birthdate)) AS age
FROM annp_final.athlete
GROUP BY age
ORDER BY age ASC;
```



Athletes by Age & Gender

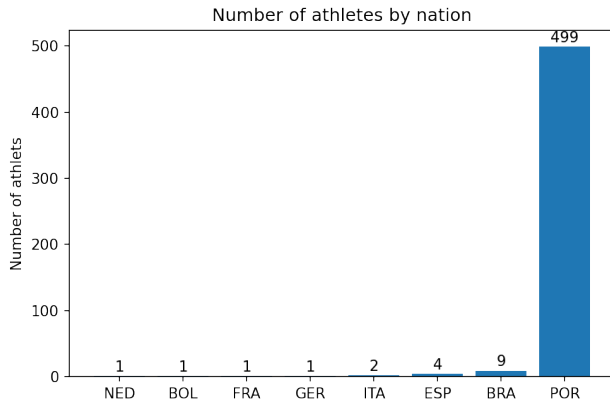
```
SELECT
    EXTRACT(YEAR FROM age(birthdate)) AS age,
    gender,
    COUNT(*)
FROM annp_final.athlete
GROUP BY (age, gender)
ORDER BY age ASC;
```





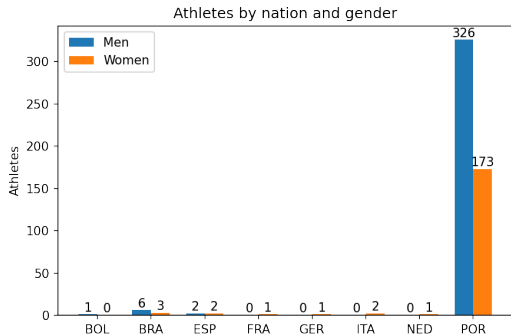
Athletes by Nation

```
SELECT
    nation,
    COUNT(*) AS nationCount
FROM annp_final.athlete
GROUP BY nation
ORDER BY nationCount ASC;
```

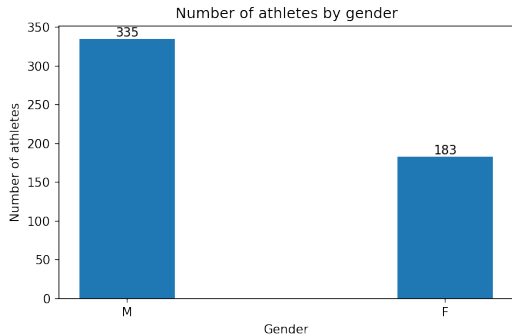


Athletes by Nation & Gender

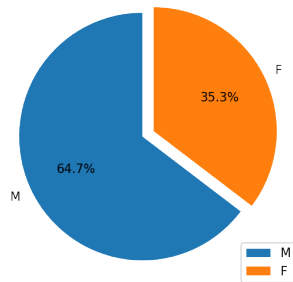
```
SELECT
    nation,
    gender,
    COUNT(*)
FROM annp_final.athlete
GROUP BY CUBE (nation, gender)
ORDER BY nation, gender NULLS LAST;
```



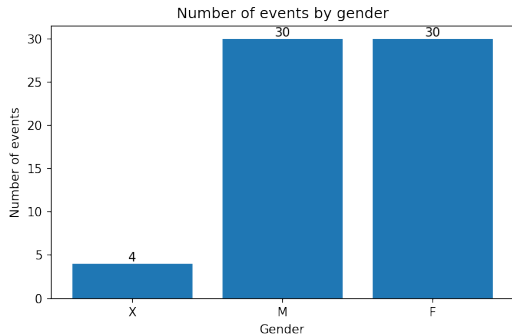
Athletes by Gender



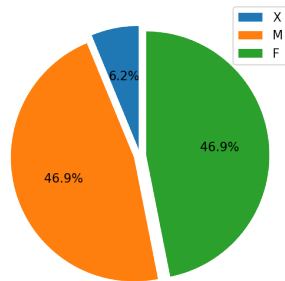
Percentage of athletes by gender



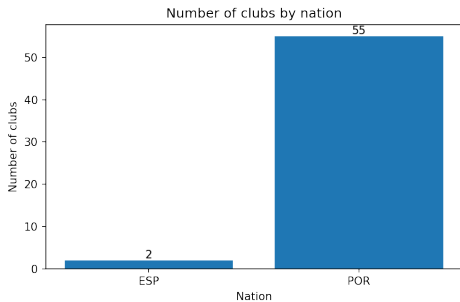
Events by Gender



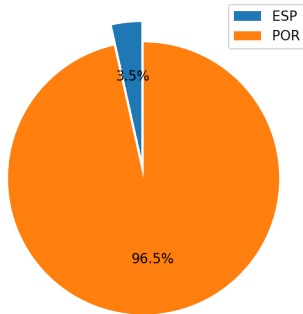
Percentage of events by gender



Clubs by Nation

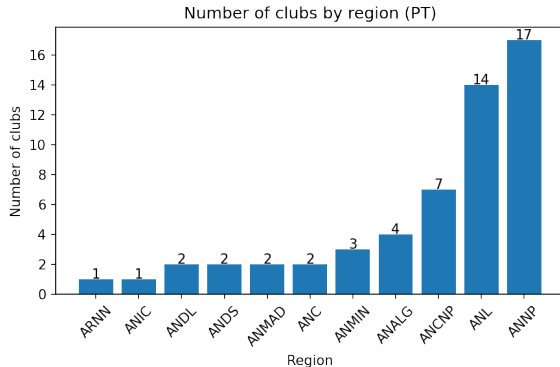


Percentage of clubs by nation

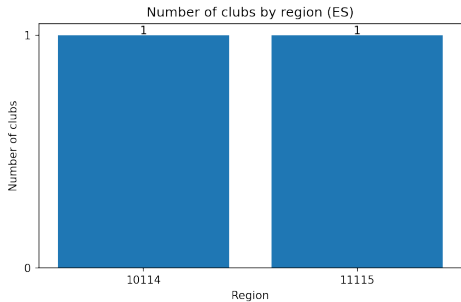


Clubs by Region (PT)

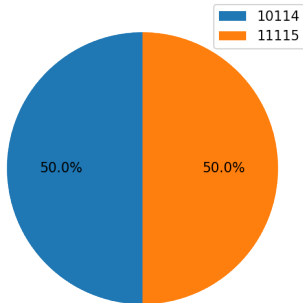
```
SELECT
    region,
    COUNT(*) AS regionCount
FROM annp_final.club
WHERE region SIMILAR TO '[A-Z]+'
GROUP BY region
ORDER BY regionCount ASC;
```



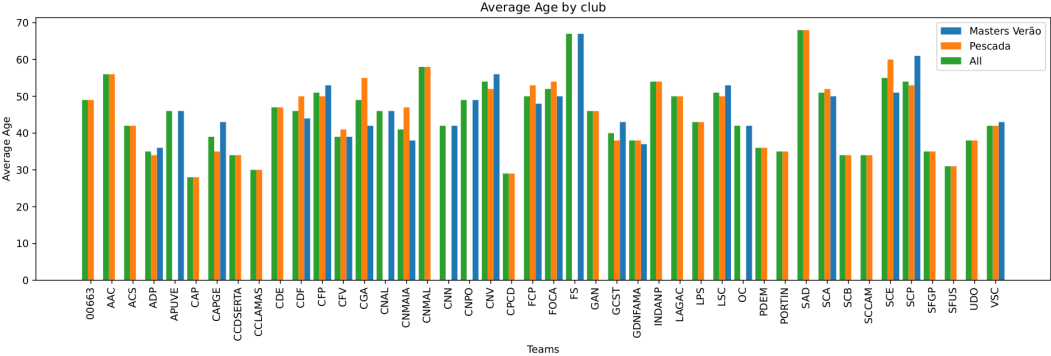
Clubs by Region (ES)



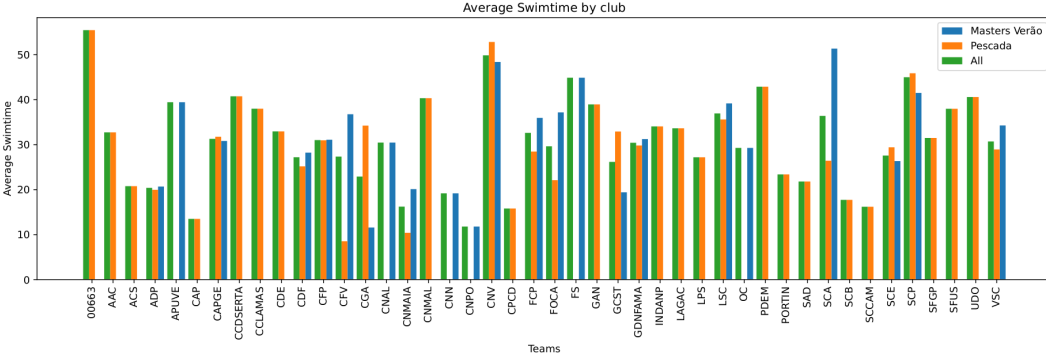
Number of clubs by region (ES)



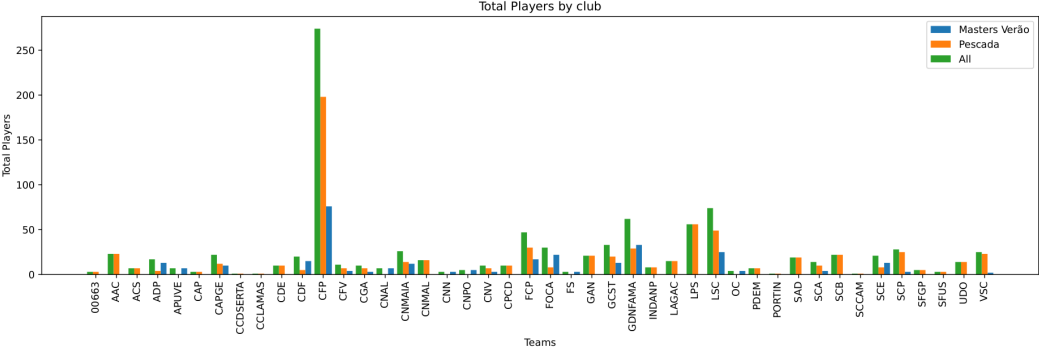
Club Statistics I



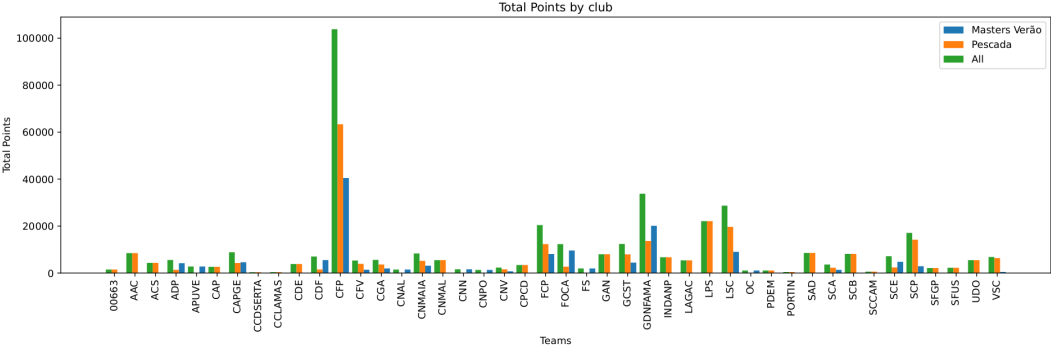
Club Statistics II



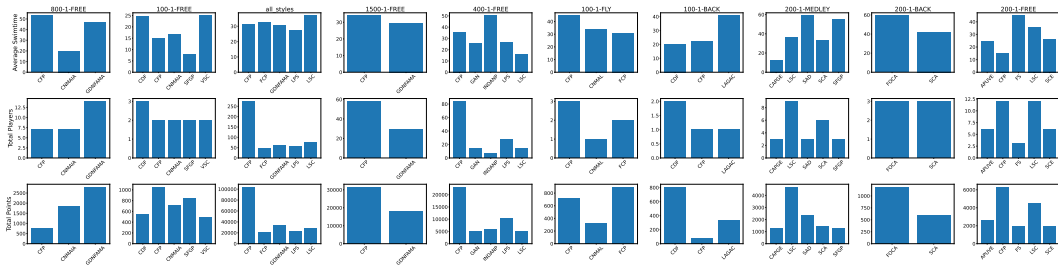
Club Statistics III



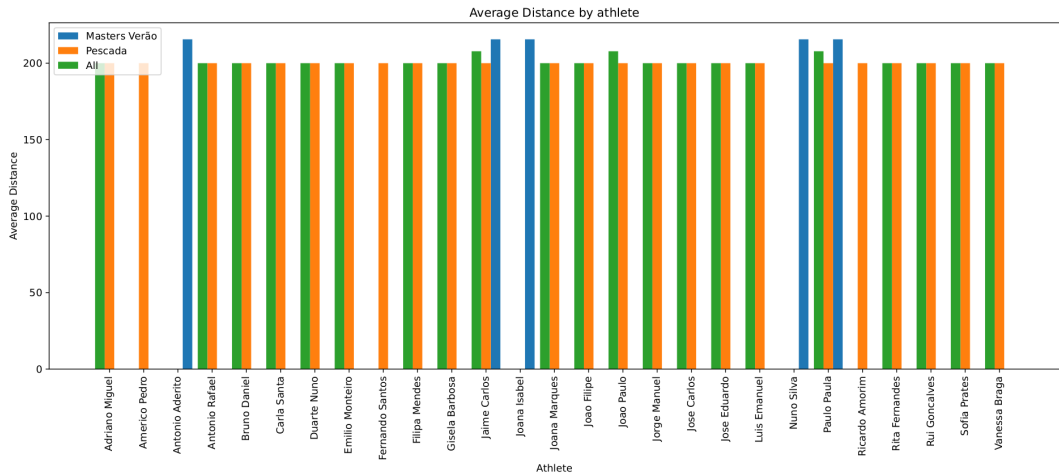
Club Statistics IV



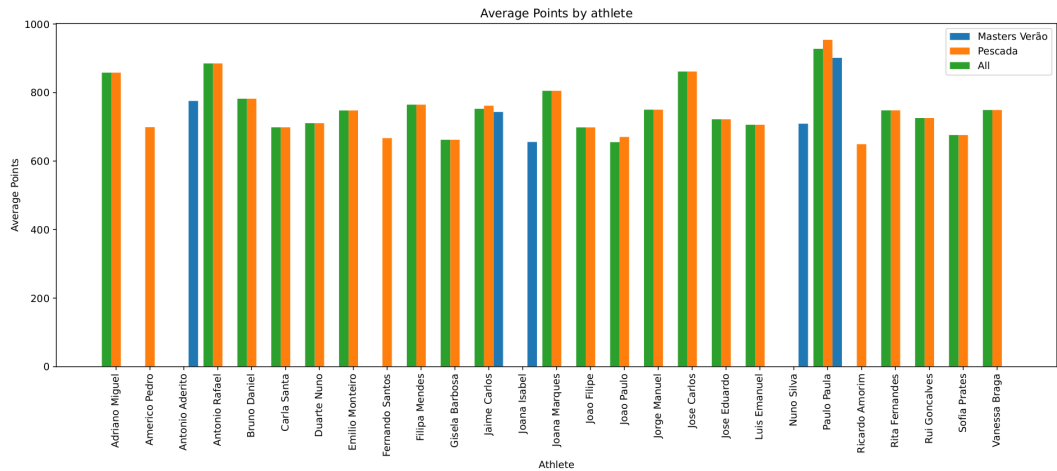
Swim Style Statistics



Athlete Statistics I



Athlete Statistics II



Athlete Statistics III

