

REPORT

1. INSERT Command

- **A. Countries:** Insert a new country record into the table countries.
- **B. Athlete:** Add a new athlete to the database, a new tuple is added to the athlete table.

2. DELETE Command

- **A. Countries:** Remove a country record from the database based on the id given.
- **B. Athlete:** Delete an athlete from the database based on the athlete id ,given as input.

3. UPDATE Command

- **A. OlympicOccurrence:** Modify host countries and winning countries for a specific Olympic occurrence, based on the country id that is taken in the input.
- **B. Athlete:** Update information for a specific athlete based on the id of the athlete given as input.

4. Selection - Projection:

- **A. List of Countries:** Fetch a list of all countries on the basis of the selected attribute and the value given after that.
- **B. List of Athletes:** Retrieve a list of all athletes based on the attribute and the value given,projected in ascending or descending order based on age.
- **C.Torch :** Retrieve the torches based on the attribute

5. Search

- **A. Search Athletes by Name:** Find athletes based on a specified keyword in their names.
- **B. Search sport by Name:** Locate a sport based on the initial keywords given in search .

9. Gender Distribution

- **A.Distribution of Gender by Sport:** Gives a count of each gender participating in that sport.
- **B.Distribution of Gender by Athletes(ALL):** Count the number of male and female athletes.

10. Average Age

- **A.Average age by sport:** Lists the average age of athletes participating in each sport based on the id provided.
- **B.Average Age of Athletes:** Calculate the average age of all athletes.

6. Sum of Medals

- Gives a list of medals received for each country.

7. Minimum Medals

- **Athletes with the Minimum Medals:** Identify athletes with the minimum medals received of all occurrences and their name,country id and the count of medals are listed.

8. Maximum Medals

- **Athletes with the Maximum Medals:** Identify athletes with the maximum total medals received among all the occurrences and their name, country id and count of the medals are listed.

11. Get Country by Rank

- The occurrence id and threshold for rank are taken as input and lists all the countries that are greater than or less than that threshold based on the input given.

12. Country Participation

- Lists the countries and the number of seasons the country participated in.