DBMS PROJECT
OLYMPICS DATABASE SYSTEM

TEAM 23:

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PROBLEM STATEMENT:

This project aims to develop a database for managing the data and operations of an Olympic game held. The modern **Olympic Games** or **Olympics** are leading international sporting events featuring summer and winter sports competitions in which thousands of athletes from around the world participate in a variety of competitions. The Olympic Games are considered the world's foremost sports competition with more than 200 nations participating.

A computerized database is more professional and economical to handle. This database will hold records of all athletes qualified for the Olympics, all the events being conducted, details regarding the Olympic organisation committee, the site and the country of the event being held.

INTRODUCTION AND DATA MODELS:

1. The Olympics Database model has numerous countries (COUNTRY) where each country has a name (Country Name) and a country code (Country Code) where Country code is the primary key.
2. Each country has athletes who belong to the country, where each athlete has a name (Athlete Name), Id (Athlete id) which is a primary key, date of birth (Athlete DOB), age (Age) which is

dependent on the date of birth, athlete gender, and a country code that refers to which country the athlete is from.

3. An athlete participates in an event, where the event has a Sport Name and an event name as its attributes, where the Event name is a primary key.
4. Result is given to the athletes who participate in an event, and Result has a medal type as its key attribute.
5. An event has a schedule which has date, time, venue, event type and event name.
6. There also exists an Olympic organising committee that organises the events with the help of an IOC Execution Board with the year it was formed.
7. There are Sites in each country which has the season (Winter/Summer), City, and the code of the country it belongs (Country Code).

DATA REQUIREMENTS:

1. COUNTRY: Country Name, <u>Country Code</u>
2. ATHLETE: <u>Athlete ID</u>, Athlete Name, Age, AthleteDOB, Athlete Gender, <u>Country Code</u>
3. EVENT: Sport Name, <u>Event Name,</u> Heat round
4. RESULT: Result, <u>Medal Type</u>
5. SCHEDULE: Date, <u>Time</u>, <u>Venue</u>, <u>Event Type,</u> Event Name
6. OLYMPIC ORGANIZING COMMITTEE: IOC Executive Board, Formed year
7. SITE: Season, City, <u>Country Code</u>

QUERIES:

1. How has the representation of males and females evolved over time?
2. Does location affect the performance of competitors?

   (i.e., "home field advantage")

ENTITY – RELATIONSHIP DIAGRAM: