

Olympic Database

We want to design a database for storing the information of U.S. athletes and their participations in Olympic games.

- An athlete has his/her SSN, the name, and the birth date.
 - Each Olympiad has the year, the country, and the city. For example, the 2020 Olympic game was held in Tokyo, Japan.
 - An athlete can participate in several sports in an Olympiad. For example, Michael Armstrong participated in the swimming, diving, and water polo events.
 - Every athlete in our database participated in at least one Olympiad. Every Olympiad has at least one athlete (and actually, several thousands).
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1. Draw an ER diagram for this database. Make sure to indicate primary keys, cardinality constraints, weak entities (if any), and participation constraints.
 2. Turn the ER diagram into tables: give SQL statements to create the tables. Make sure to indicate primary keys, foreign keys, if any. Specify the appropriate integrity constraints to enforce the total/partial coverage, and overlap constraints, if any.