

DBMS PROJECT – DELIVERABLE 1

Topic : Olympics Database

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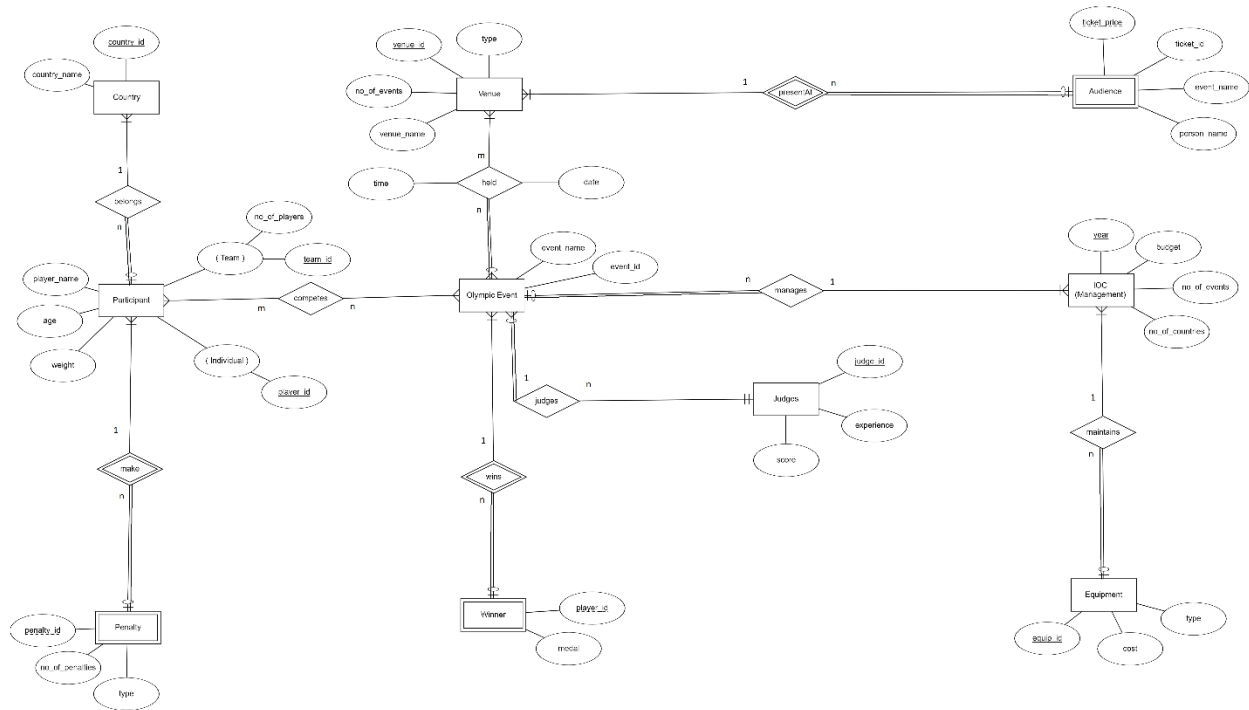
Problem Statement –

The Olympic Games held every four years are one of the most prestigious sports competitions in the world. There is a lot of planning and management that goes into organizing the various events - managing judges, players, their logistics, accommodation, etc. The database we are constructing will be event focused and give details about the athletes, judges and medals while also giving an insight into how these events are managed by the IOC (International Olympics committee). Through this database, we will be able to infer - which venue the events are held, the players participating, the medals they win and the equipment required for the corresponding sport (if any).

Requirements –

1. The IOC management registers all the events and disciplines of the sports that are going to be held in that particular year. They also plan the budget for that particular year. This is decided by coordinating with the hosting country and the broadcasting companies.
2. Every country registers with the IOC indicating whether they would be participating in the Olympic Games that year and sends in the list of participants from their respective country, along with the player details like age, weight, height, team details, etc.
3. The IOC decided the venues and schedules for every event.
4. They bring in experienced judges to score every event and also give penalties to the players who violate the rules of the game.
5. The IOC manages any sort of equipment that would be required for a particular sport.
6. The IOC also sell tickets to the people who wish to spectate any particular event.

ER Diagram -



Write-Up –

1. The event is the main entity. Every event for that particular day, has an event_id and a name.

Events are held at venues.

2. One venue can host multiple events on the same day at different times. This is represented by no_of_events and the schedule of date and time is represented as an attribute attached to the relationship "held".

Audience spectate the event at the allocated venue.

3. Every member in the audience has a ticket_id, name and details and schedule of the event they wish to watch.

Participants belonging to a country compete in an event.

4. The details of the participant like his age, weight, height, team he belongs to (if any) are recorded.
5. Every country has a country_id and name.

Sometimes, players make penalties.

6. The penalties awarded have a particular id, type associated with it.

Judges score an event.

7. The judges have a unique id, experience and give a score.

IOC manages equipment required for the event.

8. Some events may require equipment. Each of these equipment have a type, are associated with an event and have a unique id.