Task # 1: Database

Note: use AI for solutions, For extra Marks.

Create a database system that can store and manage information for a large-scale international sports tournament, with multiple events and participants across various countries. The database should be able to handle complex queries and provide real-time updates.

Requirements:

The database should include tables for storing information about the events, participants, venues, and schedules.

Each event should have a unique identifier and include information about the date, time, location, and type of sport.

Each participant should have a unique identifier and include information about their name, nationality, age, and gender.

Each venue should have a unique identifier and include information about the name, location, and capacity.

The database should be able to handle updates to the schedule in real-time, including changes to the date, time, and location of events.

The database should be able to generate reports, including lists of participants, schedules for each event, and overall standings for each sport.

The database should be able to handle complex queries, such as finding all events scheduled for a specific date, or all participants from a specific country.

The database should be designed to handle a large volume of data, with efficient storage and retrieval mechanisms.

Note: Participants can participate in multiple events, and events can have multiple participants. A participant's performance in each event should be recorded in the database, including their score and ranking.

This task will require students to design and implement a complex database system with multiple tables and relationships, as well as handle real-time updates and complex queries. It will also require them to consider efficient storage and retrieval mechanisms to handle a large volume of data.

Note: Attached Script & backup file of the database and the attached notepad file with queries.