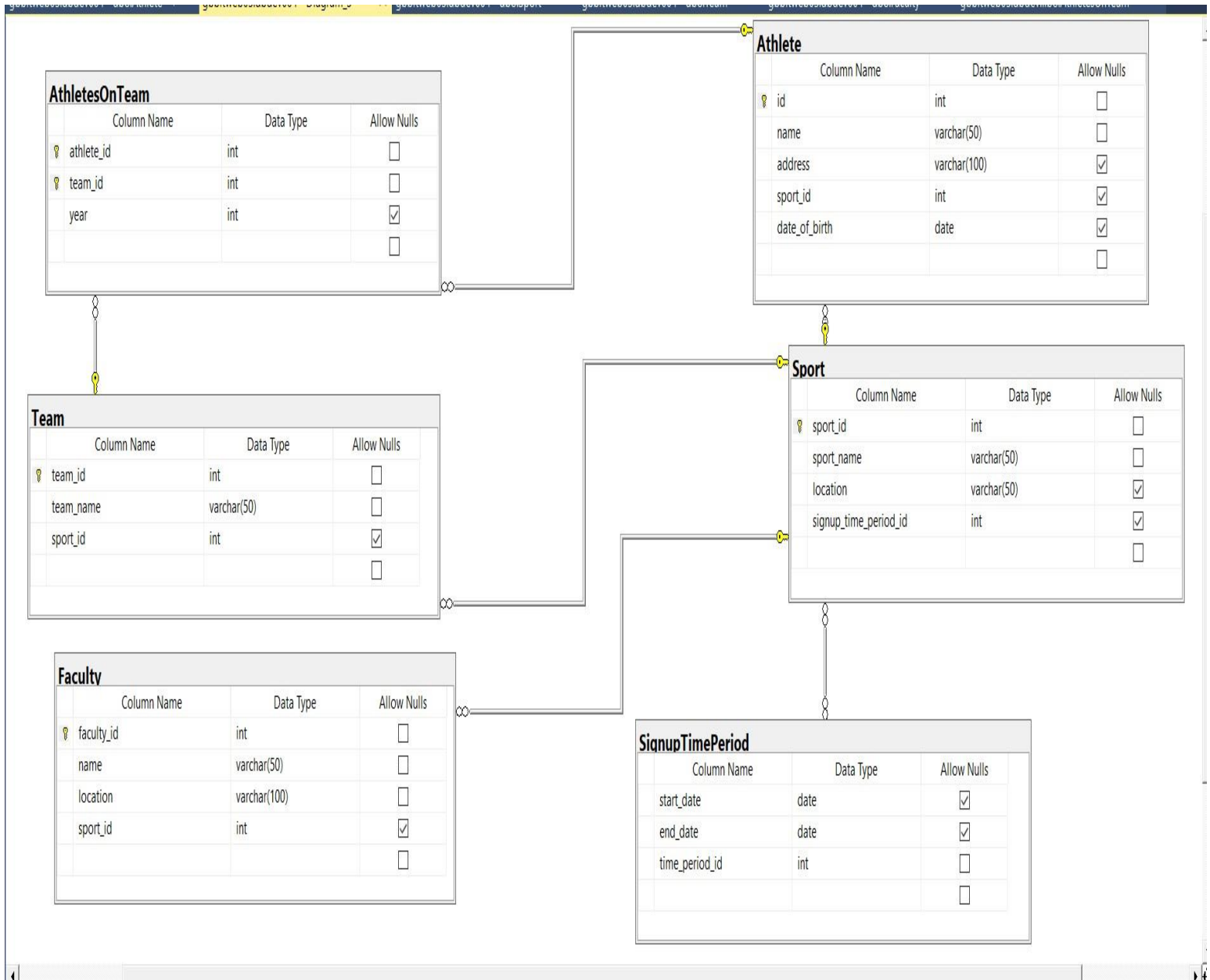


Final Examination

=> Business requirements:

1. Sport:
 - Sport Name (e.g., Basketball, Volleyball)
 - Year (e.g., 2023)
 - Maximum Participants
2. Facility Location:
 - Facility Name (e.g., DBD North, DBD East)
 - Address
 - Contact Number
3. Athlete:
 - Athlete ID (unique identifier for each athlete)
 - Athlete Name
 - Date of Birth
4. Team:
 - Team ID (unique identifier for each team)
 - Team Name
 - Contact Name
 - Contact Phone Number
 - Home Facility (foreign key referencing Facility Location)
 - Registered Sport (foreign key referencing Sport)
5. Athletes on a Team (Team Membership):
 - Athlete ID (foreign key referencing Athlete)
 - Team ID (foreign key referencing Team)
 - Year (e.g., 2023)
6. Sign-up Time Period:
 - Start Date
 - End Date

Database Design:



CRUD Diagram for Athlete Entity:

1. Create a new sport

- Add a new entry to the **Sport** table.
- Ensure the sport name is unique and conforms to any other business rules.

2. View sport details

- Retrieve the sport details from the **Sport** table using the sport ID or name.

3. Edit sport details

- Update the relevant fields in the **Sport** table.
- Ensure the updated details still conform to business rules.

4. Delete a sport

- Remove the sport from the **Sport** table.
- Consider cascading deletes or how this deletion affects teams or athletes registered for the sport.

5. Create new facility

- Add a new entry to the **Facility Location** table.
- Ensure the facility name and address are unique.

6. View facility info

- Retrieve details from the **Facility Location** table using facility ID or name.

7. Edit facility info

- Update the relevant fields in the **Facility Location** table.
- Ensure the updated details are unique and accurate.

8. Delete a facility

- Remove the facility from the **Facility Location** table.
- Consider implications for teams that use this facility as their home location.

9. Register an athlete

- Add a new entry to the **Athlete** table.
- Ensure the athlete ID is unique.

10. View athlete info

- Retrieve details from the **Athlete** table using the athlete ID.

11. Update athlete info

- Update relevant fields in the **Athlete** table.

12. Remove athlete

- Delete the athlete from the **Athlete** table.
- Consider implications for teams the athlete might be a part of.

13. Create a new team

- Add a new entry to the **Team** table.
- Ensure the team ID and team name are unique.
- Verify that the home facility exists.
- Verify that the sport they're registering for exists.

14. View team details

- Retrieve details from the **Team** table using the team ID or name.

15. Update team details

- Update the relevant fields in the **Team** table.
- Ensure the updated details still adhere to business rules.

16. Disband a team

- Remove the team from the **Team** table.
- Consider how this affects athletes associated with the team.

17. Add athlete to team

- Add an entry to the **Athletes on a Team** table.
- Ensure the athlete and team both exist and the combination is unique for the year.

18. View team roster

- Retrieve all athletes associated with a particular team for a specified year.

19. Edit team roster

- Update the **Athletes on a Team** table as necessary.

20. Remove athlete from team

- Delete the specific athlete-team association from the **Athletes on a Team** table.

21. Set sign-up period

- Add a new entry to the **Sign-up Time Period** table.

- Ensure the start and end dates are valid.

22. View sign-up period

- Retrieve the start and end dates from the **Sign-up Time Period** table.

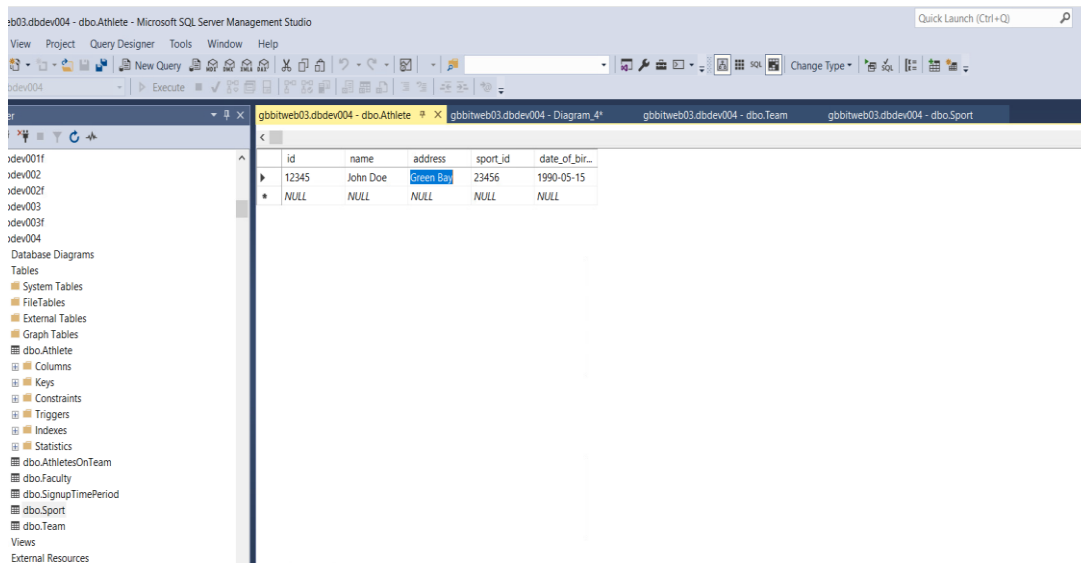
23. Edit sign-up period

- Update the dates in the **Sign-up Time Period** table.
- Ensure the new dates are valid.

24. Remove sign-up period

- Delete the specific time period from the **Sign-up Time Period** table.

=>test cases



Object Explorer

Connect - dbdev001f dbdev002 dbdev002f dbdev003 dbdev003f dbdev004 Database Diagrams Tables System Tables FileTables External Tables Graph Tables dbo.Athlete Columns Keys Constraints Triggers Indexes Statistics dbo.AthletesOnTeam dbo.Faculty dbo.SignupTimePeriod dbo.Sport dbo.Team Views External Resources

gbbitweb03.dbdev004 - dbo.Athlete

team_id	team_name	sport_id
1	John Deo	23456
2	Sarah	2333
* NULL	NULL	NULL

Microsoft SQL Server Management Studio

No row was updated.

The data in row 2 was not committed.

Error Source: Framework Microsoft SqlClient Data Provider.

Error Message: The INSERT statement conflicted with the FOREIGN KEY constraint "FK_Team_sport_id_59E2A6F2". The conflict occurred in database "dbdev004", table "dbo.Sport", column "sport_id". The statement has been terminated.

Correct the errors and retry or press ESC to cancel the changes.

OK Help

Dashboard Settings YouTube Maps News step iiklok - Make Your... Gmail Computer Science Quiz 8 Chapter 11 (10/2) Python Panda... (9/5) HTML & CSS...

gbbitweb03.dbdev004 - dbo.Faculty - Microsoft SQL Server Management Studio

File Edit View Project Query Designer Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect - dbdev004 Tables System Tables FileTables External Tables Graph Tables dbo.Athlete Columns Keys Constraints Triggers Indexes Statistics dbo.AthletesOnTeam dbo.Faculty dbo.SignupTimePeriod dbo.Sport Columns Keys Constraints Triggers Indexes Statistics dbo.Team Views External Resources Synonyms Programmability

gbbitweb03.dbdev004 - dbo.Athlete

faculty_id	name	location	sport_id
2344355	Sarah	Cricket	23234
* NULL	NULL	NULL	NULL

Microsoft SQL Server Management Studio

No row was updated.

The data in row 1 was not committed.

Error Source: Framework Microsoft SqlClient Data Provider.

Error Message: The INSERT statement conflicted with the FOREIGN KEY constraint "FK_Faculty_sport_id_59063A47". The conflict occurred in database "dbdev004", table "dbo.Sport", column "sport_id". The statement has been terminated.

Correct the errors and retry or press ESC to cancel the changes.

OK Help

Ready

Type here to search

15:31 AM 10/10/2023

