

Computer Science Department

University of Computer & Emerging Sciences (FAST-NU)

ASSIGNMENT COVER SHEET

COURSE TITLE DATABASE SYSTEMS COURSE CODE CS2005

INSTRUCTOR Shujaat Hussain TYPE ☐ ☒ (Please tick)
Indiv. Group

ASSIGNMENT NO 1

ASSIGNMENT Entity Relationship Diagram- Case studies

HAND OUT DATE 20-Feb-2023 DUE DATE 06-Mar-2023 (10:00 AM)

ASSESSMENT CRITERIA (or attached)	% Mark
<p>Submission: Hard and Scanned copies are required. Submit Hard Copies to Mr. Amir or Mr. Fahad in the Academic Office (till the due date and time). The submissions that will be slided beneath Instructor's office doors or submitted elsewhere will not be graded. Also, Submit Scanned Copies of the assignment on Google Classroom.</p> <p>Group of max 2 students is allowed, individual work is acceptable in extreme situations and with <u>prior written (by email) permission of theory course teacher</u>. Such permission should be sought at least <u>5 days before the deadline of the assignment</u>.</p> <p>Any type of plagiarism will lead to 0% marks of both/all parties.</p> <p>Late submission (even 1 min) will result in zero marks.</p> <p>There will be no credit if the given requirements are changed.</p>	

TO BE COMPLETED BY STUDENT (TEAM LEAD)		<u>GROUP MEMBERS ID</u>	
NAME	Hamza Tariq	ID : 21I-0707	
	_____ID		
NO	<u>21I-0707</u>	ID : 21I-0834	
Time Taken : 5 hrs			

DECLARATION: I/We declare that this Coursework is my/our group's own work

SIGNATURES (All members)

GRADE/ MARK AWARDED

COMMENTS

INSTRUCTOR'S SIGNATURE

DATE

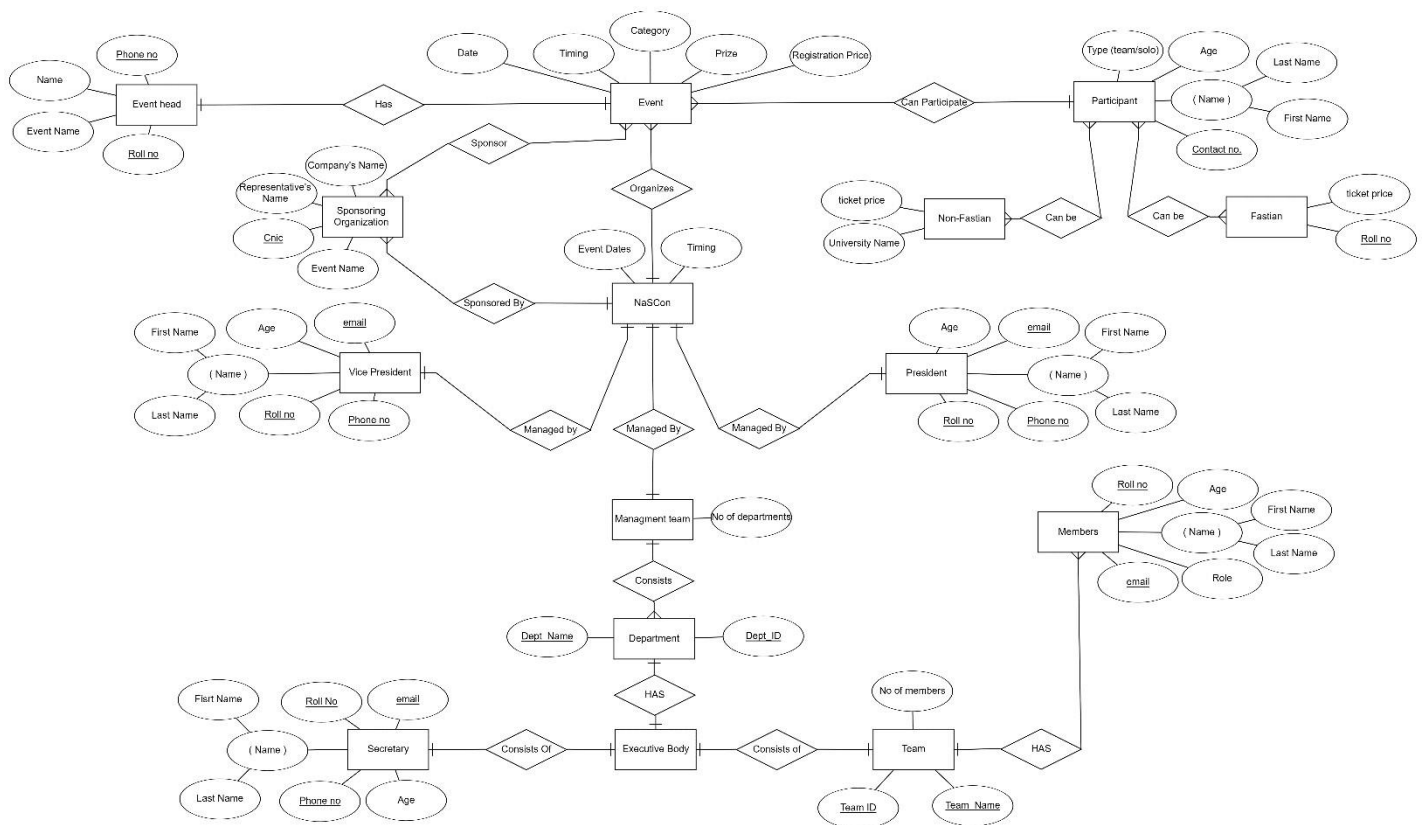
SOFTWARE:

The diagramming software used for building ER diagram is erdplus.

Case Study 1:

[25 marks]

National Solutions Convention (NaSCon)



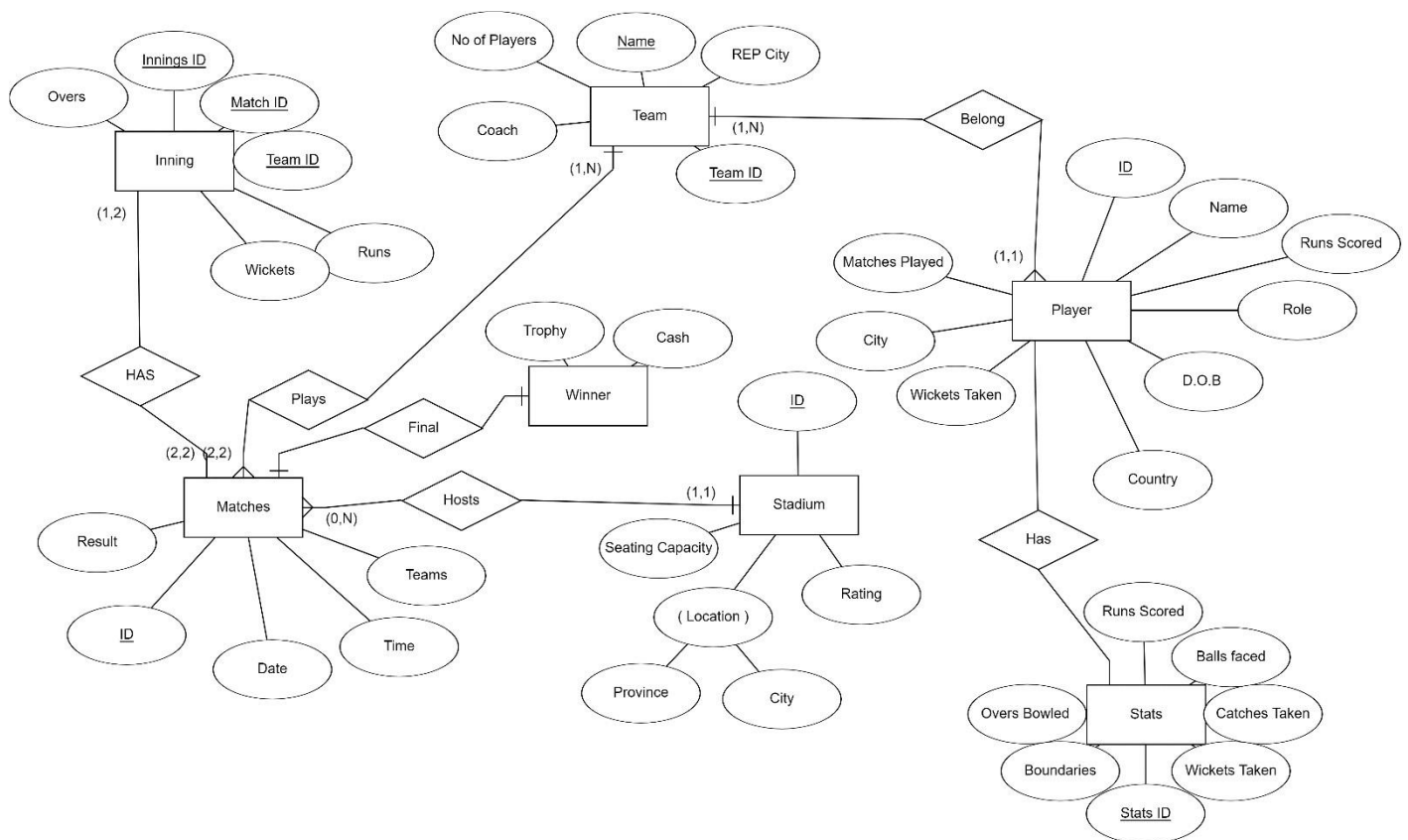
Key Points:

- ➔ NaSCon is managed by president, vice president and management team.
- ➔ Management team further consists of many departments.
- ➔ Each department has an executive body which consists of a secretary and a team.
- ➔ NaSCon organizes many events that are sponsored by different sponsoring organization

Case Study 2:

[25 marks]

Pakistan Super League (PSL)



Key Points:

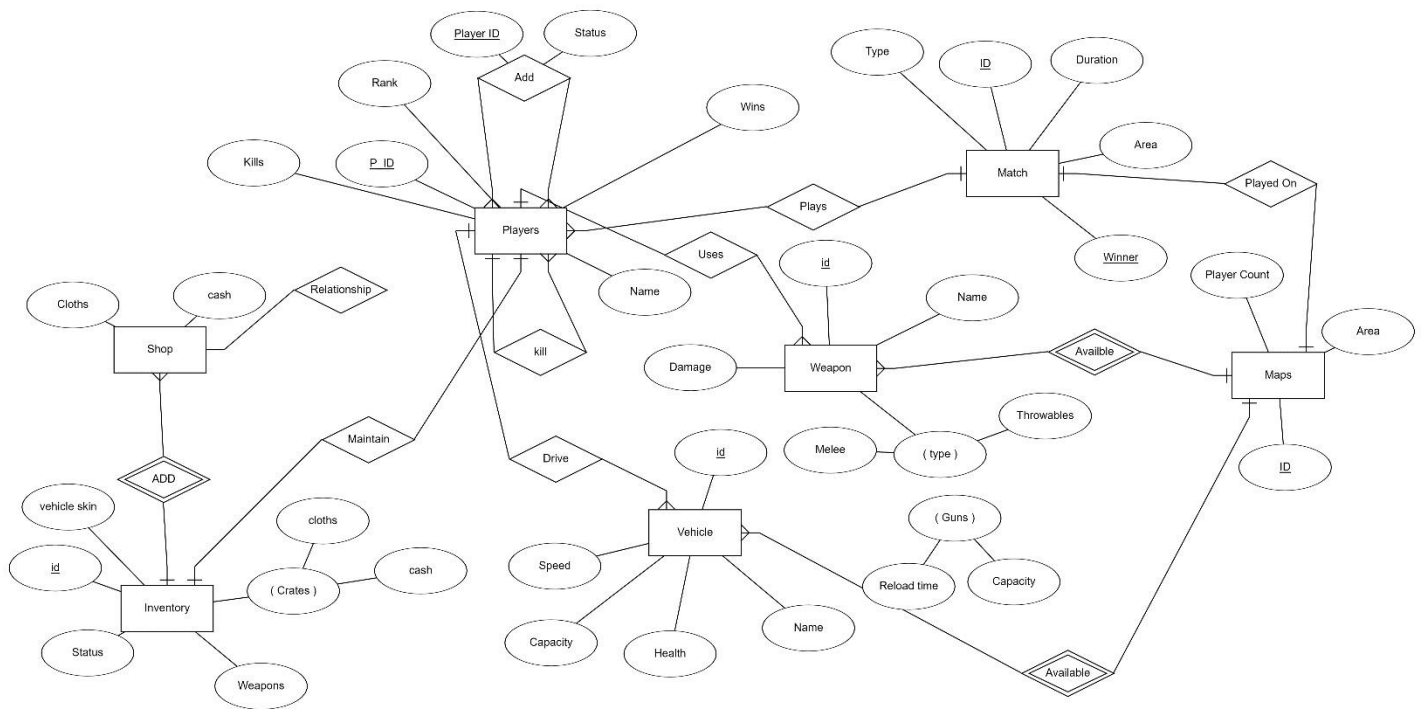
- ➔ Erd plus is used to make diagram.

- ➔ Psl organizes matches each match has max two teams and each match has two innings.
- ➔ Every player has stats of all his matches.
- ➔ Matches are organized in stadiums.

Case Study 3:

[25 marks]

PUBG



Key Points:

- ➔ Pubg consists of many players who can play a match.
- ➔ A match can be played on different maps and different weapons and vehicles are available on different maps.
- ➔ Player can use weapons to kill other player and can also drive vehicles.

- ➔ Each player has its own inventory and he can also buy different things from the shop that are added to the inventory of the player.
- ➔ Since the software that I used for making er diagram doesn't allow making more than 8 relations with one entity. So please assume that there is a (one to many) relation between player and shop.

Case Study 4:

[25 marks]

LinkedIn

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- ```

 erDiagram
 Jobs ||--o{ User : "Can Apply"
 Jobs ||--o{ User : "Posts"
 User ||--o{ Posts : "Can Make"
 User ||--o{ Posts : "Like"
 User ||--o{ Connection : "Request"
 User ||--o{ LinkedIn : "Has"
 LinkedIn ||--o{ Company : "Registered On"

 Jobs {
 string Id PK
 string Company ID
 string Description
 string Job Title
 string Salary
 string Location
 }
 User {
 string Name
 string Password
 string Degrees
 string Profile Information bio
 string ID PK
 string Profile Picture
 string email
 string Skills
 }
 Company {
 string ID PK
 string Name
 string No of employees
 string Size
 string Description
 }
 Posts {
 string Id PK
 string User ID FK
 string Description
 string Time
 string Date
 }
 Connection {
 string Recipient's ID FK
 string Sender's ID FK
 string Date Of Connection
 string Status
 }

```