DBMS Lab
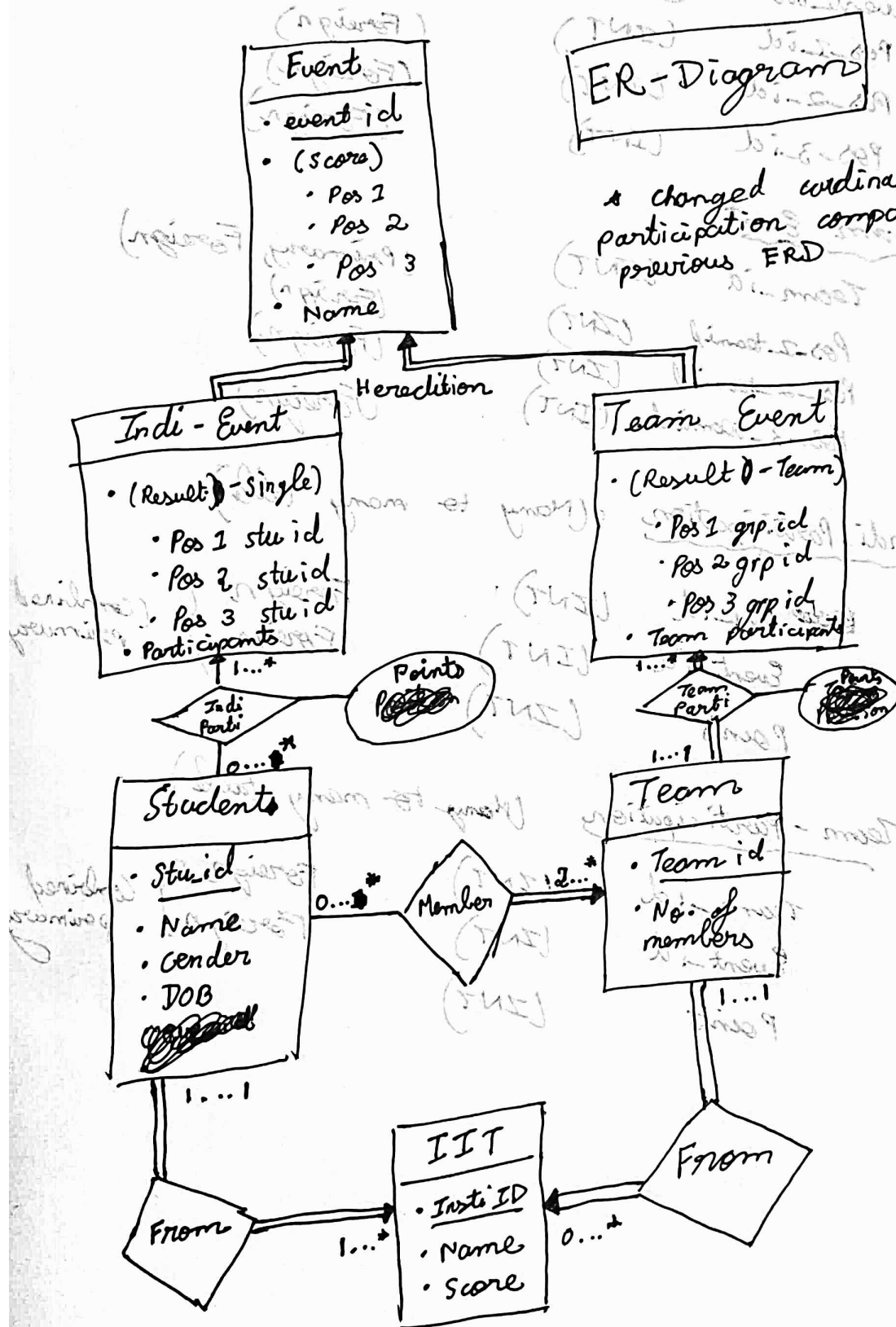## Day - 3

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ER-Diagram

• changed cardinality of participation compared to previous ERD

Event
- event id
- (score)
  - Pos 1
  - Pos 2
  - Pos 3
- Name

Heredition

Indi - Event
- (Result) - Single)
  - Pos 1 stu id
  - Pos 2 stu id
  - Pos 3 stu id
- Participants

1...*

Indi Parti

Points

0...*

Students
- Stu id
- Name
- Gender
- DOB

0...* Member 1...*

Team Event
- (Result) - Team)
  - Pos 1 grp id
  - Pos 2 grp id
  - Pos 3 grp id
- Team participants

1...*

Team Parti

Pos Position

1...1

Team
- Team id
- No. of members

1...1

1...1

From

IIT
- Insti ID
- Name
- Score

From

1...*   0...*

→ To generate final rankings, list the IITs on descending score

→ List the students in all individual events for non-team event students

Dbms Schema

① Student

Stu_Id	(INT)	(Primary Key)
Name	(CHAR(50))	
Gender	(CHAR)	
DOB	(DATE)	
Insti_Id	(INT)	(Foreign Key)

② Team

Team_Id	(INT)	(Primary Key)
Name	(CHAR(50))	
Cardinality	(INT)	
Insti_Id	(INT)	(Foreign Key)

③ IIT

| Insti_Id | (INT) | (Primary) |
| Name | (CHAR(50)) | |

④ Event

Event_Id	(INT)	(Primary)
Name	(VARCHAR(50))	
Pos_1_points	(INT)	
Pos_2_points	(INT)	
Pos_3_points	(INT)	

⑤ Members   (Many to many table)

| Stu_Id | (INT) | Foreign ⎫ (Combined |
| Team_Id | (INT) | Foreign ⎭ Primary) |

⑥ Individual Event

Event_id	(INT)	(Primary) (Foreign)
Pos_1_id	(INT)	(Foreign)
Pos_2_id	(INT)	(Foreign)
Pos_3_id	(INT)	(Foreign)

⑦ Team Event

Team_id	(INT)	(Primary, Foreign)
Pos_1_teamid	(INT)	(Foreign)
Pos_2_teamid	(INT)	(Foreign)
Pos_3_teamid	(INT)	(Foreign)

⑧ Indi_Participation : (Many to many table)

~~Stu~~ Stu_id	(INT)	Foreign }
Event_id	(INT)	Foreign } (Combined primary)
Points	(INT)	

⑨ Team - Participation (Many to many table)

Team_id	(INT)	Foreign }
Event_id	(INT)	Foreign } Combined primary
Points	(INT)	