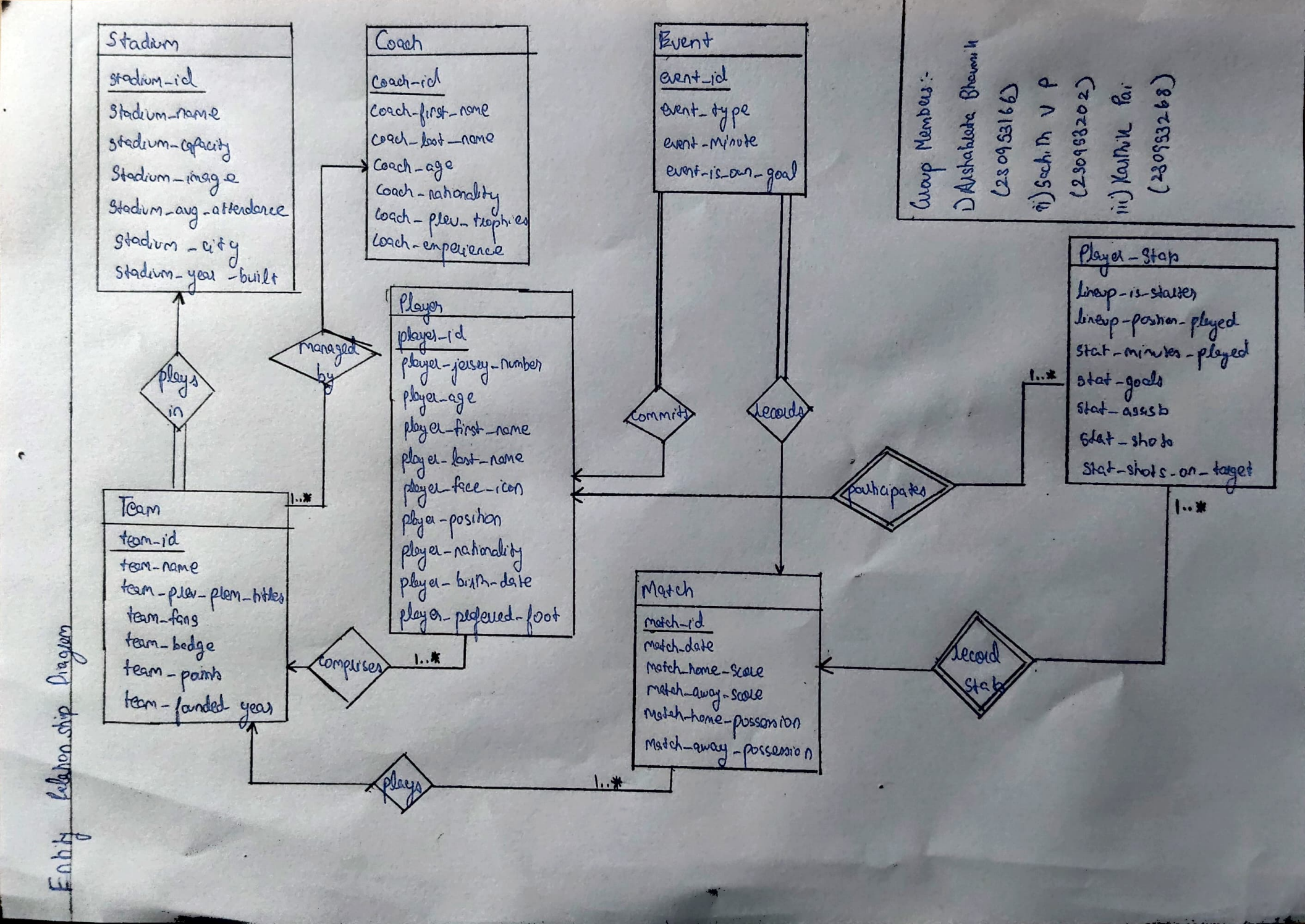
Entity Relationship Diagram
Group Members:
1) Aishalata Bhowmik (2309531165)
ii) Sachin V P (2309532022)
iii) Kaushik Rai (2309532168)
Stadium
stadium_id
Stadium_name
stadium_capacity
Stadium_image
Stadium_avg_atterdance
Stadium_city
Stadium_year_built
Coach
Coach_id
Coach_first_name
Coach_last_name
Coach_age
Coach_nationality
Coach_prev_trophies
Coach_experience
Event
event_id
event_type
event_minute
event_is_an_goal
Player_Stat
lineup_is_starter
lineup_position_played
stat_minutes_played
stat_goals
stat_assists
stat_shots
stat_shots_on_target
Player
player_id
player_jersey_number
player_age
player_first_name
player_last_name
player_face_icon
player_position
player_nationality
player_birth_date
player_prefered_foot
Team
team_id
team_name
team_prev_plem_titles
team_fans
team_bedge
team_points
team_founded_year
Match
match_id
match_date
match_home_score
match_away_score
match_home_possession
match_away_possession
plays in
managed by
commits
records
participates
comprises
plays
record stat
1..*
1..*
1..*
1..*
1..*

e) Reduction of ERD

i) For Stadium table:-

→ There exists only one to many relationship with Team table
→ no extra attributes would be added

∴ Final table:-

Stadium(stadium_id, stadium_name, stadium_capacity, stadium_image, stadium_avg_attendance, Stadium_city, stadium_year_built)

ii) For Team table :-

→ There exists a many to one relation with Stadium, with Team having a total participation, include the primary key of Stadium (stadium_id) as a foreign key in Team

→ There exists a many to one relation with Coach, with Team having a total participation, include the primary key of Coach (coach_id) as a foreign key in Team

∴ Final table:-

~~Coach~~ Team (team_id, coach_id, ~~player_id~~, stadium_id, team_name, team_prev_prem_titles, team_fans, team_badge, team_points, team_founded_year)

iii) For ~~Coach~~ Table:-

→ There exists no many to one relationships, only one to many with Teams, no foreign key would be added

∴ Final table:-

Coach(coach_id, coach_first_name, coach_last_name, coach_age, coach_nationality, coach_prev_trophies, coach_experience)

Group Members:-

Aishabista Bhowmik (23093166) Kaushik Pai (23093268)

Sachin V.P (23093202)

iv) For Players table :-

→ There exists a many-to-one relationship with Team table, Player having a total participation, add primary key of Team (team-id) as foreign key in Player

∴ Final table :-

Player (player-id, team-id, player-jersey-number, player-age, player-first-name, player-last-name, player-face-icon, player-positions, player-nationality, player-birth-date, player-preferred-foot)

v) For Event table :

→ There exists a many-to-one relationship with Player table, Event having total participation, include primary key of Player (player-id) as foreign key

→ There exists a many-to-one relationship with Match table, Event having total participation, include primary key of Match (match-id) as foreign key

∴ Final table :-

Event (event-id, player-id, match-id, event-type, event-minute, event-is-own-goal)

vi) For Match table :-

→ There exists a many-to-one relationship with Team, Match having total participation, include primary key of Team (team-id) as foreign key

∴ Final table :-

Match (match-id, team-id, match-date, match-home-score, match-away-score, match-home-possession, match-away-possession)

Group Members :-

i) Arshabrata Bhaumik (230953166)

ii) Sachith V. P (230953202)

iii) Karthik Pai (230953268)

vii) For Player-Stats table (weak entity)

→ This is a weak entity table that depends on two strong entities :- Player and Match

→ Include the primary keys of both the tables. The combination of both will be the primary key for this table.

∴ Final Table :

Player-Stats (player-id, match-id , lineup-is-starter, lineup-position-played, stat-minutes-played , stat-goals , stat-assists , stat-shots, stat-shots-on-target)

Group Members :-

i) Arshabrata Bhaumik (230933166)

ii) Sachith V.P (230933202)

iii) Karthik Pai (230933268)