

CS4400 PHASE 2

GROUP 7

1. Relational Schema

Team = (id, name, country, captain, captain_id[fk13])

fk13: captain_id => player.id, captain_id is not null

Club = (id [fk3], country_rank, coach)

fk3: id -> Team.id is non-null, id is not null

Order = (placed_by_id [fk5], selector_id [fk12], order_number, item_name, num_item, price_item)

fk5: placed_by_id -> Club.id, placed_by_id is not null

fk12: selector_id => Worker.id, selector_id is not null

National = (id [fk4], world_rank)

fk4: id -> Team.id, id is not null

Worker = (worker_id, fname, lname, estimated_salary, employer_id[fk11], country, entered_year)

fk[11]: employer_id => Club.id, employer_id is not null

Coach = (worker_id [fk1], license_id, num_years)

fk1: worker_id -> Worker.worker_id, worker_id is non-null

Player = (worker_id [fk2], position, jersey_number, num_assist, num_goals, birthday, represent_country)

fk2: worker_id -> Team.id, worker_id is non-null

Competition = (comp_id, type, event, year)

Participate = (comp_id [fk9], team_id[fk10])

fk9: comp_id => Competition.comp_id, comp_id is not null

fk10: team_id => Team.id

Company = (co_id, name, address, e_id [fk6])

fk6: endorse_player -> Player.worker_id

Sponsor = (comp_id [fk7], co_id[fk8])

fk7: comp_id => Competition.comp_id

fk8: co_id => Company.co_id

2. Unhandled constraints:

- Unique Jersey number within a club.
- The type of team can participate in which type of competition.