

Swim's RC Solution (Spring 2017)

For example:

DRC:

- (a) $\{(fname, lname, email) \mid (_fname, lname, _email, _, _, _) \in \text{Swimmer}\}$
- (b) $\{(levelId, startDate) \mid (_, 2, levelId, startDate, _) \in \text{LevelHistory}\}$
- (c) $\{(lname, fname) \mid (coachId, lname, fname, _) \in \text{Coach}, (10, _, _, _, coachId) \in \text{Meet}\}$
- (d) $\{(eventId, title, comment, fname, lname) \mid (eventId, title, _, _, _) \in \text{Event}, (_, 4, eventId, _, _, _, comment, coachId) \in \text{Participation}, (coachId, lname, fname, _) \in \text{Coach}\}$
- (e) $\{(fname, lname) \mid (sid, fname, lname, _, _, _, _) \in \text{Swimmer}, (_, sid, eventId_1, _, _, _, _) \in \text{participation}, (_, sid, eventId_2, _, _, _, _) \in \text{participation}, eventId_1 \neq eventId_2\}$

TRC:

- (a) $\{(s.FName, s.LName, s.EMail) \mid s \in \text{Swimmer}\}$
- (b) $\{(l.LevelId, l.StartDate) \mid l \in \text{LevelHistory}, l.SwimmerId = 2\}$
- (c) $\{(c.FName, c.LName) \mid c \in \text{Coach}, m \in \text{Meet}, m.CoachId = c.CoachId, m.MeetId = 10\}$
- (d) $\{(e.EventId, e.title, p.comment, c.FirstName, c.LastName) \mid e \in \text{Event}, p \in \text{Participation}, c \in \text{Coach}, e.EventId = p.EventId, p.CommentCoachId = c.CoachId, p.SwimmerId = 4\}$
- (e) $\{(s.FName, s.LName) \mid s \in \text{Swimmer}, p1 \in \text{Participation}, p2 \in \text{Participation}, s.SwimmerId = p1.SwimmerId, s.SwimmerId = p2.SwimmerId, p1.EventId} \neq p2.EventId\}$