Swim's RA Solution (Spring 2017)

- (a) $\pi_{\text{FName, LName, EMail}}(\text{Swimmer})$
- (b) $\pi_{\text{LevelId, StartDate}}(\sigma_{\text{SwimmerId}=2}(\text{LevelHistory}))$
- (c) $\pi_{FName, LName} (\sigma_{MeetId=10} (Meet) |x| Coach)$
- $(d) \qquad \pi_{EventId, Title, Comment, FName, LName} (Event |x| \rho_{CoachId/CommentCoachId}(\sigma_{SwimmerId=4} (Participation)) |x| Coach)) \\))$

Note that it is necessary to rename CommentCoachId before the natural join. If not, it becomes a Cartesian product.

(e) $\pi_{FName, LName}$ (Swimmer | x | ($\sigma_{EventId} <> EventId_2$ ($\pi_{SwimmerId, EventId}$ (Participation) | x | ($\rho_{EventId_2/EventId}$ ($\pi_{SwimmerId, EventId}$ (Participation))))))