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Assignment 2

1. $\Pi_{\text{P.ID, P,Name}}(\sigma_{\text{P.PlayPos = 'center'}}(\rho_{p}(\text{Player})))$

2. $_{\text{S.Year, S.TotalPoints}}\mathcal{G}(\sigma_{\text{P.ID = S.PlayerID} \wedge \text{P.Name = 'Pistol Pete'}}(\rho_{P}(\text{Player}) \text{ X } \rho_{S}(\text{Stats})))$

3. $\Pi_{\text{P.Name}}(\sigma_{\text{Pl.PlayerID = P.ID} \wedge \text{Pl.GameID = G.GameID} \wedge \text{G.PlayingVenue = 'The Pit'} \wedge \text{G.Result = 'win'}}(\rho_{p}(\text{Player}) \text{ X } \rho_{G}(\text{Game}) \text{ X } \rho_{Pl}(\text{Play})))$

4. $\Pi_{\text{P.name, G.GameID, G.Date, G.PlayingVenue, G.Result}}(\sigma_{\text{Pl.PlayerID = P.ID} \wedge \text{Pl.GameID = G.GameID} \wedge \text{P.Name = 'Pistol Pete'}}(\rho_{p}(\text{Player}) \text{ X } \rho_{G}(\text{Game}) \text{ X } \rho_{Pl}(\text{Play})))$
   $\cap$
   $\Pi_{\text{P.name, G.GameID, G.Date, G.PlayingVenue, G.Result}}(\sigma_{\text{Pl.PlayerID = P.ID} \wedge \text{Pl.GameID = G.GameID} \wedge \text{P.Name = 'Lobo Louie'}}(\rho_{p}(\text{Player}) \text{ X } \rho_{G}(\text{Game}) \text{ X } \rho_{Pl}(\text{Play})))$

5. Temp $\leftarrow \Pi_{\text{avg(S.TotalPoints)}}(\text{Stats})$
   $\Pi_{\text{P.Name, P.ID}}(\sigma_{\text{P.ID = S.PlayerID ^ S.TotalPoints > Tem p}}(\rho_{p}(\text{Player}) \text{ X } \rho_{S}(\text{Stats})))$

1. Select M.name
   From members M, books B, borrowed BD
   Where M.memb_no = BD.memb_no AND BD.isbn = B.isbn AND B.title = 'Math';

2. Select M.name, M.memb_no
   From members M
   Where M.name NOT LIKE 'J%';

3. Select M.memb_no, count(B.isbn)
   From members M, books B, borrowed BD
   Where M.memb_no = BD.memb_no AND B.isbn = BD.isbn
   Group by M.memb_no
   Order by M.memb_no DESC;
   (Assumption: Answer showed ascending order, but the assignment asks for descending)

4. Select M.memb_no, M.name
   From members M
   Where M.name LIKE '%A%';

5. Select distinct B.publisher
   From members M, books B, borrowed BD
   Where BD.memb_no = M.memb_no AND BD.isbn = B.isbn AND M.name = 'Sam';