جبر رابطه‌ای کشیدی
مطلوب: برای هر دوره رسم کنید پایگاه داده
استخراج

نام دانشجو اول گروه: حسین ش... قد
شماره دانشجویی: ۹۴۲۵۰۰۱۲۱۴۴

سوال ۱:

$$\pi_{\substack{teamName \\ ,\, dore}} \left[\pi_{\substack{teamID, \\ dore}} \left({}_{dore,\, teamID}g\left(\sigma_{leagueID='1'}(league-team) \right)_{max(emtiaz)\ as\ ME} \right) \right] \infty (team)$$

$$U\ \pi_{\substack{teamName \\ ,\, dore}} \left[\pi_{\substack{teamID \\ ,\, dore}} \left({}_{dore,\, teamID}g\left(\sigma_{leagueID='5'}(league-team) \right)_{max(emtiaz)\ as\ ME} \right) \right] \infty (team)$$

سوال ۲:

$$A = \left[\left(\pi_{\substack{teamID \\ ,\, leagueID \\ ,\, dore}}(league\_team) \infty \pi_{\substack{bazikonID \\ ,\, teamID}}(bazikon\_team) \right) \infty \left(\pi_{\substack{CodeMelli \\ ,\, bazikonName}}(bazikon) \right) \right.$$

$$\left. \infty \pi_{\substack{bazikonID \\ ,\, gameID \\ ,\, goalID}}(golZadan) \right]$$

$$B = \left[\pi_{\substack{bazikanName \\ ,\, dore \\ ,\, count \\ ,\, leagueID}} \left({}_{leagueID,\, dore,\, bazikonName}g\,(A)_{MAX\,(Count\{bazikonID\})\ as\ count} \right) \right] \infty (league)$$

$$\pi_{\substack{bazikanName \\ ,\, dore \\ ,\, count \\ ,\, leagueName}}(B)$$

$$A = \left[\left(\pi_{\substack{teamID \\ leagueID \\ dore}}(team\_league)\right) \bowtie \pi_{\substack{teamID \\ bazikonID}}(bazikon\_team)\right) \bowtie \pi_{\substack{gameID, khatakonande \\ khataID}}(khatakardan)\right]$$

$$\pi_{\substack{leagueName \\ teamID \\ dore}}\left[league \bowtie \left(_{teamID, dore, leageID}g_{MAX(count(khataID))}(A)\right)\right]$$

$$A = \left[\pi_{\substack{teamID \\ leagueID \\ dore}}(team\_league) \bowtie \pi_{\substack{teamID \\ bazikonID}}(bazikon\_team) \bowtie \pi_{\substack{gameID, khatakonande \\ khataID}}(khatakardan)\right]$$

$$\pi_{\substack{bazikon\,Name \\ leagueName \\ dore}}\left[\pi_{\substack{leagueName \\ bazikon\,ID \\ dore}}\left[league \bowtie \left(_{bazikonID, dore, leagueID}g_{max(count(khataID))}(A)\right)\right]\right] \bowtie (bazikon)$$

$$A = \left[\pi_{\substack{teamID \\ leagueID}}(team\_league) \bowtie \pi_{\substack{teamID \\ bazikonID}}(bazikon\_team) \bowtie \pi_{\substack{gameID \\ khata shavande \\ khataID}}(khatakardan)\right]$$

$$B = bazikon \bowtie \left(league \bowtie \left(_{\substack{leagueID \\ bazikonID}}g_{max(count(khataID))}(A)\right)\right)$$

$$C = bazikon \bowtie \left(league \bowtie \left(_{\substack{leagueID \\ bazikonID}}g_{min(count(khataID))}(A)\right)\right)$$

$$B \cup C$$

$$A = \left[\pi_{\substack{teamID \\ , leagueID}} (team\_league) \bowtie \pi_{\substack{gameID, tamashagar \\ , teamMizbanID}} (game) \right]$$

$$B = league \bowtie \left(g^{(A)}_{\substack{dore, leagueID \\ , gameID}} MAX(tamashagar) \right)$$

$$C = league \bowtie \left(g^{(A)}_{\substack{dore, leagueID \\ , gameID}} Min(tamashagor) \right)$$

$$B \cup C$$

$$\pi_{\substack{bazikonID \\ , bazikonName}} (bazikon) \bowtie \left[\pi_{\substack{bazikonID \\ , gameID}} \left(g_{\substack{rooydadID = '4' \ or \\ rooydadID = 'v'}} (game\_bazikon) \right) \right]$$

برطرف کردن league_team

$$A = \left[\pi_{\substack{teamID \\ , leagueID \\ , dore}} (league\_team) \bowtie \pi_{\substack{gameID \\ , team \ Mizban \\ , team \ Mehman}} (game) \bowtie \pi_{\substack{gameID \\ , golID \\ , bazikonID, \ Modele \ Gol}} (gol) \right]$$

$$team \bowtie league \bowtie \left(g^{(A)}_{\substack{Dore, leagueID \\ , teamID, modeleGol}} Cout(golID) \ as \ count \right)$$

$$A = \left[\pi_{\substack{gameID \\ , team \ Mizban, teamMehman \\ , lebas \ team \ Mizban \\ , lebas \ team \ Mehman}} (game) \right] \bowtie \pi_{\substack{leagueID \\ , teamID}} (league\_team)$$

$$league \bowtie \left(g^{(A)}_{\substack{dore, leagueID, teamID, lebasID}} Count(gameID) \right)$$

$$A = \left[\pi_{\substack{teamID \\ , rooydadID}} \left(\delta_{rooydadID = 'F'} (game\_bazikon) \right) \bowtie (bazikon\_team) \right]$$

$$team \bowtie \left({}_{teamID} g_{MAX(count(rooydadID))}^{(A)} \right)$$

$$A = \left[league \bowtie (league\_team) \bowtie (game) \bowtie \left(\delta_{naghsh = 'davar vasat'}^{(davar)} \right) \right]$$

$$\left({}_{\substack{dore, \\ leagueID, davarID}} g_{MAX(count(gameID))}^{(A)} \right) \bowtie davar \bowtie league$$