ENSF 608 – Assignment 4

Jeremy Sugimoto

30232526

Due: Nov, 27 2023

Question 1:

$\pi_{\text{FName, LName}}(\text{competitor})$

Question 2:

$\pi_{\text{FName, LName}}(\sigma_{\text{Age<12 AND Instrument='oboe'}}(\text{competitor}))$

Question 3:

$\pi_{\text{competitor.CompetitorID,teacher.StudioName}}((\text{competitor}) \bowtie_{\text{TeacherID= TeacherID}} (\text{teacher}))$

Question 4:

$\pi_{\text{competitor.FName,performance.Score}}(\text{competitor} \bowtie_{\text{CompetitorID = CompetitorID}} \text{performance})$

Question 5:

$R_1 \leftarrow \text{composition} \bowtie_{\text{musicID} = \text{musicID}} (\text{performance}) \bowtie_{\text{CategoryID} = \text{CategoryID}} (\text{category})$

$R_2 \leftarrow \sigma_{\text{CompTime}='13:00:00'}(R_1)$

$\text{Result} \leftarrow \pi_{\text{Title}}(R_2)$

Question 6:

$R_1 \leftarrow \text{composition LEFT JOIN performance}$

$R_2 \leftarrow \sigma_{\text{MusicID IS NULL}}(R_1)$

$\text{Result} \leftarrow \pi_{\text{Title}}(R_2)$

Question 7:

$\pi_{\text{Score}}(\sigma_{\text{studioName}='MusicMastery'}(\text{performance}) \bowtie_{\text{CompetitorID} = \text{CompetitorID}} (\text{competitor}) \bowtie_{\text{TeacherID} = \text{TeacherID}} (\text{teacher}))$