

Assignment #4 - ENSF608

1. $\Pi_{FName, LName}(\text{competitor})$
2. $\Pi_{FName, LName}(\sigma_{\text{Age} < 12 \text{ AND } \text{Instrument} = \text{'Oboe'}}(\text{competitor}))$
3. $\Pi_{\text{competitorID}, \text{StudioName}}(\text{competitor} * \text{teacher})$
4. $\Pi_{FName, \text{Score}}(\text{competitor} * \text{performance})$
5. $\text{categories} \leftarrow \sigma_{\text{CompTime} = \text{'13:00:00'}}(\text{category})$
 $\text{perf-categories} \leftarrow \text{performance} * \text{categories}$
 $\text{RESULT} \leftarrow \Pi_{\text{Title}}(\text{perf-categories} * \text{composition})$
6. $R_2 \leftarrow \Pi_{\text{musicID}}(\text{performance})$
 $R_1 \leftarrow \Pi_{\text{musicID}}(\text{composition})$
 $\text{not-performed} \leftarrow (R_1 - R_2) * \text{composition}$
 $\text{RESULT} \leftarrow \Pi_{\text{Title}}(\text{not-performed})$

7.

music-mastery \leftarrow competitor $*$ ($\sigma_{\text{studioName} = \text{'Music Mastery'}}$ (teacher))

RESULT \leftarrow π_{score} (music-mastery $*$ performance)

