ENSF 608-Fall 2020

Ziad Chemali

Assignment 4

December 7, 2020

# Question 1:

π FName,LName (σ CompetitorID!=0 (COMPETITOR))

# Question 2:

π FName,LName (σ Age<12 AND Instrument=’oboe’ (COMPETITOR))

# Question 3:

STUDIO\_TEACHER ←TEACHER ⨝TEACHER.StudioName=STUDIO.Name STUDIO

STUDIO\_COMPETITOR ← COMPETITOR ⨝COMPETITOR.TeacherID=STUDIO\_TEACER.TeacherID STUDIO\_TEACHER

π FName,LName (σ CompetitorID!=0(STUDIO\_COMPETITOR))

# Question 4:

PERFORMANCE\_COMP ←PERFORMANCE ⨝PERFORMANCE.CompetitorID=COMPETITOR.CompetitorID COMPETITOR

π FName,Score (PERFORMANCE\_COMP)

# Question 5:

PERFORMED\_TITLES ← π CategoryID,Title(PERFORMANCE ⨝PERFORMANCE.MusicID=COMPOSITION.MusicIDCOMPOSITION)

PERFORMED\_TITLE\_TIME←CATEGORY⨝CATEGORY.CategoryID=PERFORMED\_TITITLES.CategoryID PERFORMED\_TITLES )

SCHEDULED\_1PM\_COMPOSITIONS← πTitle(σCompTime=’13:00:00’(PERFORMED\_TITLE\_TIME))

# Question 6:

SELECTED\_COMPOSITIONS ← π MusicID,Title(PERFORMANCE ⨝PERFORMANCE.MusicID=COMPOSITION.MusicIDCOMPOSITION)

ALL\_COMPOSITIONS← π MusicID,Title(σMusicID!=null(COMPOSITION))

NOT\_SELECTED\_COMPOSITIONS← ALL\_COMPOSITIONS- SELECTED\_COMPOSITIONS

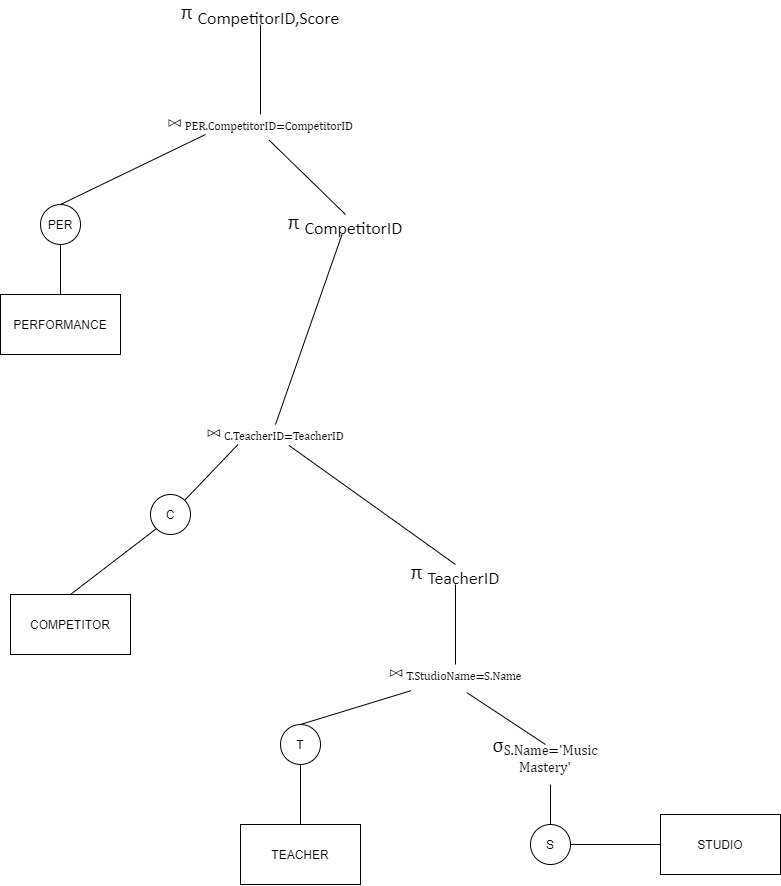
# Question 7:

π TeacherID(TEACHER⨝TEACHER.StudioName=STUDIO.Name(σName=’Music Mastery’( STUDIO)))

MUSIC\_MASTERY\_STUDIO← π TeacherID(σStudioName=’Music Mastery’( TEACHER⨝TEACHER.StudioName=STUDIO.NameSTUDIO))

COMPETITORS\_IN\_MUSIC\_MASTERY← π CompetitorID (COMPETITOR ⨝COMPETITOR.TeacherID= MUSIC\_MASTERY\_STUDIO.TeacherID MUSIC\_MASTERY\_STUDIO)

COMPETITORS\_SCORES\_IN\_MUSIC\_MASTERY← π CompetitorID,Score(PERFORMANCE⨝PERFORMANCE.CompetitorID= COMPETITORS\_IN\_MUSIC\_MASTERY.CompetitorIDCOMPETITORS\_IN\_MUSIC\_MASTERY)



# Question 8: