



1. $\pi_{FName, LName} (COMPETITOR)$
2. $\pi_{FName, LName} (\sigma_{Age < 12 \text{ AND } Instrument = 'oboe'} (COMPETITOR))$
3. $\pi_{CompetitorID, StudioName} (COMPETITOR \bowtie_{COMPETITOR.TeacherID = TEACHER.TeacherID} TEACHER)$
4. $\pi_{FName, LName, Score} (COMPETITOR \bowtie_{COMPETITOR.CompetitorID = PERFORMANCE.CompetitorID} PERFORMANCE)$
5. $Title \leftarrow \pi_{Title} (COMPOSITION)$
 $Title_Genre \leftarrow (COMPOSITION \bowtie_{Genre = Genre} CATEGORY)$
 $Title_Time \leftarrow \sigma_{CompTime = '13:00'} (CATEGORY)$
 $Result \leftarrow \pi_{Title, CompTime} (Title_Time)$
6. $P_{Music} \leftarrow \pi_{MusicID} (PERFORMANCE)$
 $C_{Music} \leftarrow \pi_{MusicID} (COMPOSITION)$
 $C_{unplayed} \leftarrow C_{Music} - P_{Music}$
 $C_{Details} \leftarrow C_{unplayed} \times COMPOSITION$
 $C_{Titles} \leftarrow \pi_{Title} (C_{Details})$
7. $\pi_{Scores} ((\sigma_{Name = 'Music Mastery'} (STUDIO) \bowtie_{STUDIO.Name = TEACHER.StudioName} TEACHER) \bowtie_{TEACHER.TeacherID = COMPETITOR.TeacherID} COMPETITOR \bowtie_{COMPETITOR.CompetitorID = PERFORMANCE.CompetitorID} PERFORMANCE)$

