

ENSF 608 Laboratory 2

September 15, 2021

The directors of an annual music competition have decided to organize their participants using a database. Music teachers may register as many students from their studio as they would like. Students must perform an approved piece of music for any competition category that they choose to enter. All competition categories have a maximum age range and are scheduled to run on a specific half-day. The results of each competition are recorded for later publishing.

1. Specify all the relationships among the records of the database.
2. A parent has volunteered to create a program handout. What information would be appropriate to show in their view of the data? What is a query that they might make?
3. The head judge is responsible for finalizing and publishing the results. What is an update operation that they might need to make? What is one query that they might apply?
4. What is one other view that might need to be used by a different user group?
5. At the last minute, Ivan Singh registered another student who is planning to play the Beethoven piece. What information will need to be updated in the database?

PERFORMER

Last Name	First Name	Age	Competitor_Number	Instrument	Teacher	Music_ID
Williams	Sophie	7	001	Flute	7834	3
Bell	Jalal	14	157	Trombone	1274	3
Turner	Penny	10	052	Piano	7834	3
Wong	Roy	11	188	Flute	9202	2
Madani	Amira	15	096	Oboe	1274	1

TEACHER

Last Name	First Name	Teaching_ID	No_Students	Studio_Name
Jamison	Colin	9202	10	Music Mastery
Singh	Ivan	7834	25	Melody Time
Lee	Jasmine	1274	34	Harmony Inc.

CATEGORIES

Category_ID	Genre	Age_Max	Day	Time
001	Classical	17	Wednesday	PM
002	Romantic	17	Tuesday	PM
003	Baroque	17	Wednesday	AM
004	Classical	10	Monday	AM

COMPOSITIONS

Music_ID	Title	Composer	Genre
1	Suite No. 1 in G Major, BWM 1007	Bach	Baroque
2	Prelude, Op. 28, No. 4	Chopin	Romantic
3	Symphony No. 5 in C Minor, Op. 67	Beethoven	Classical

RESULTS

Competitor_Number	Category_ID	Score
001	004	82
157	001	69
052	004	95
188	002	75
096	003	88