

SoundGood Music School Rapport

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Introduction

In this rapport we are going to be fixing the errors that we got as feedback during seminar 2. We are going to be going over all the required points so that it will be possible to continue to work on the next assignment. We will use what we had done in seminar 2 and from there and or add or remove different tables. We will also change the ones where the attributes or primary/ foreign keys are wrong.

Method

1. The script for inserting data only inserts data in five of the tables. It should have inserted into all of the tables.
 - For the first issue to correct all we had to do was to insert data into all of the tables in our database. This can be found at our github at Github. We also had to update this again after we added everything else that we needed to fix from the feedback.
2. If the attribute sibling_id in student is the id of one of a student's siblings, then It's not sufficient to store just one sibling per student. Say that a student has two siblings, but you only store one. Then the sibling you stored quits. Now it will seem as if this student has no sibling, even though in reality the other remains. Also, since sibling_id isn't a FK, it might be an invalid id. If, instead, sibling_id is intended to be a family id, meaning that all students who are siblings with each other share the same sibling_id, then it's wrong to make sibling_id UNIQUE.
 - Our siblings table was a big issue that did not really follow what the was asked for on the project page. Our first fix where we fixed the FK and uniqueness of the id's. But we realized that we now couldn't follow the assignment for the seminar 3. This forced us to make a complete new siblings table, where we now also can see who is sibling to who.

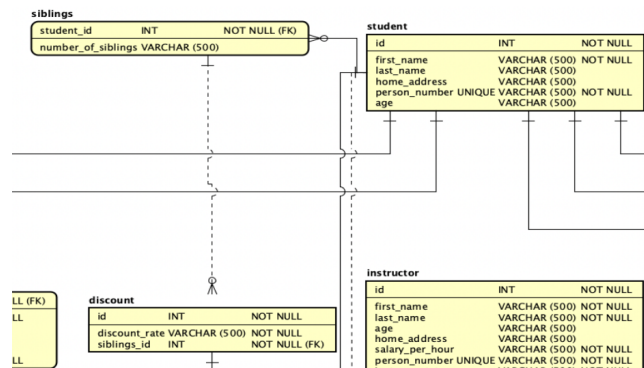


Figure 1: new sibling

3. There's no record of skill levels for lessons.

- We added skill.level for each lesson type that requires skill level.

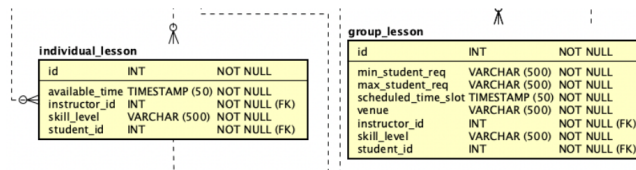


Figure 2: skill_level

4. The relation between group_lesson and ensemble seems meaningless. I can't see why an ensemble has to be associated with a corresponding group lesson.

- We simply removed the relation and made an own id for ensemble as primary key.

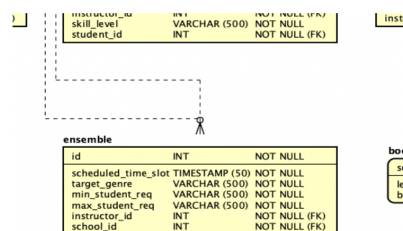


Figure 3: group_lesson and ensemble

5. There are no relations between student and lessons, it's impossible to see which student has booked or attended which lesson.

- We made relations between the different lessons and the student, so now you should be able to see what student is booked at what lesson and who attended what lesson. We also had to make sure all the new keys are correct.

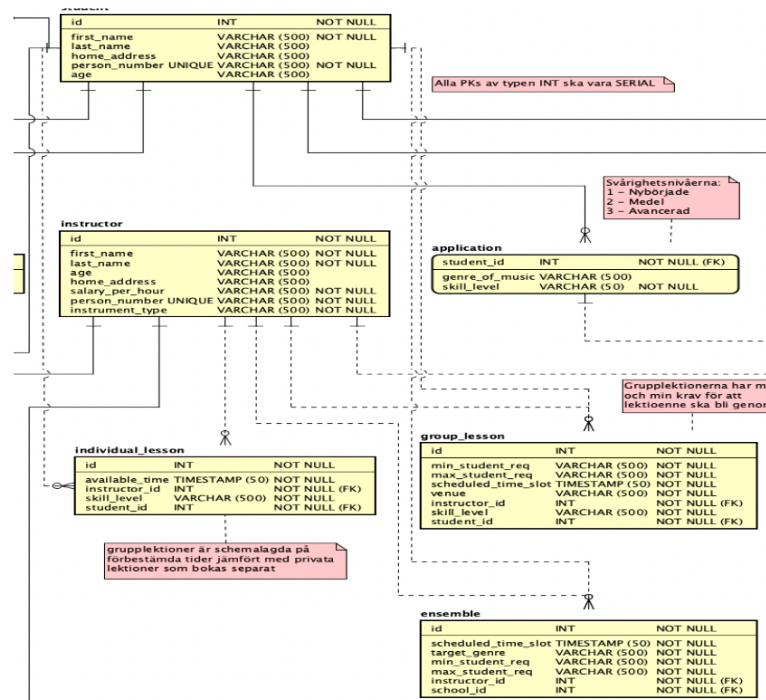


Figure 4: student and lesson relation

6. Instruments aren't handled correctly. First, the price must be repeated for each instrument of the same kind. Second, the lease time should have a time type, not VARCHAR. Third, it's not possible to see when a rental started or terminates, since there's only one value for rental time.

- We switched from VARCHAR to a TIMESTAMP and added a start_leasing and return_leased_instrument. We also added different prices for the 3 different factors for the total price. What brand, what type of instrument and for how long someone is leasing it.

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rent_instrument

student_id	INT	NOT NULL (FK)
price_monthly	VARCHAR (500)	NOT NULL
start_leasing	TIMESTAMP (50)	NOT NULL
quantity_of_instrument	VARCHAR (500)	NOT NULL
brand_type	VARCHAR (500)	NOT NULL
instrument_type	VARCHAR (500)	NOT NULL
return_leased_instrument	TIMESTAMP (50)	NOT NULL
brand_price	VARCHAR (500)	NOT NULL
instrument_type_price	VARCHAR (500)	NOT NULL

Figure 5: new rent instrument

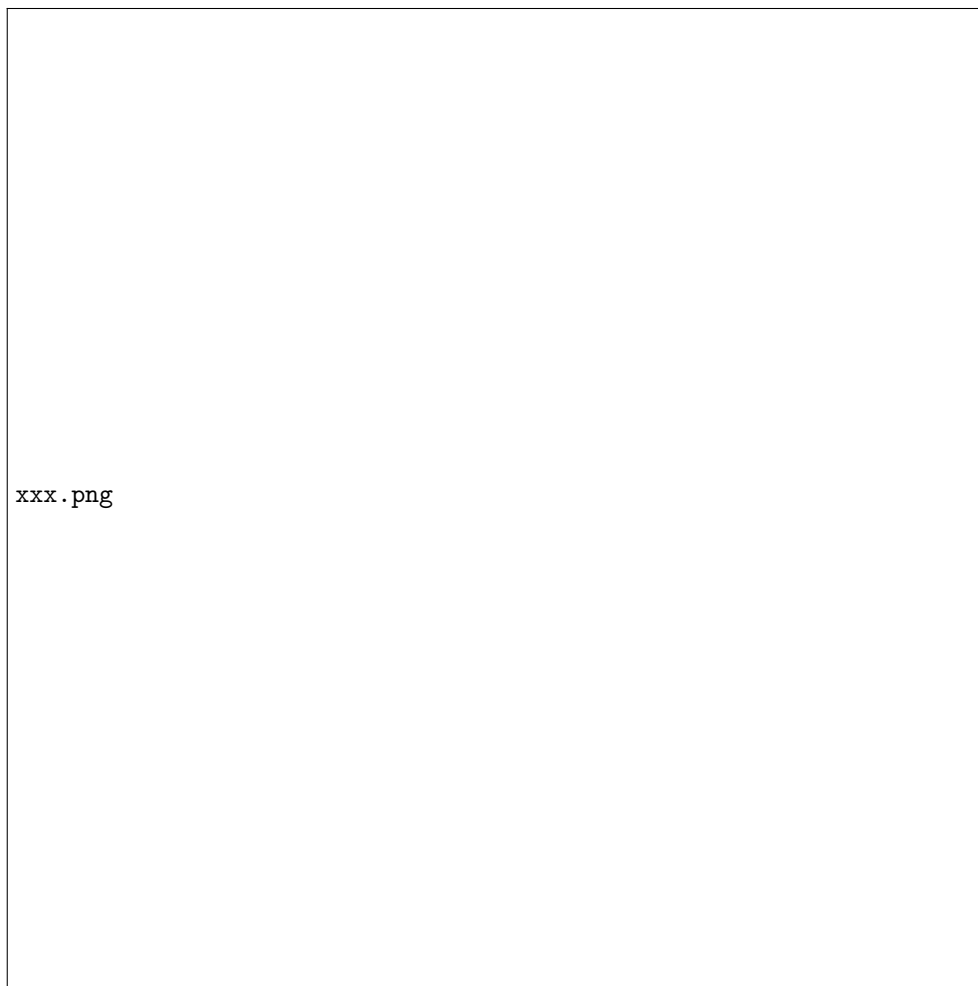


Figure 6: xxxx