The Music Men

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Application Description:

Our application is based on a brick-and-mortar music store database. The database will track the instruments and their subsequent accessories, as well as the students that are or have been enrolled in private music lessons hosted by the music store.

Database Description:

The database is composed of only a few tables. The base table is 'Instruments' hich, surprisingly, contains a list of the instruments the store carries and deals in. This table is supported by the 'Description' table which contains descriptions of the instruments in a one-to-one relationship. The 'Accessory' table, on the other hand, has a many-to-many relationship to 'Instrument', reflecting reality. Finally, the 'Student' table has a many-to-one relationship with the 'Instrument' table since, in an orchestra, it is perfectly permissible for many individuals to play the same instrument.

Hibernate was used primarily for the most basic queries, such as printing out the contents of a given table. In order to handle the multiplicity of relationships between accessories, instruments, and students, we used HQL, Hibernate's built in SQL variant. All interaction is still done through Hibernate.

Source Data:

The source data for this database was not derived from any on-line source. Rather it is a mix of random data and a general knowledge of orchestral instruments.

ER Diagrams:

Application Instructions: