

# Enchanted Ears

## Assignment 4: Database Integrity



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## Background

EnchantedEars was founded in 2024 by Virag Szabo for educational purposes and her improvement in the Netherlands (Haarlem). She wanted to create something unique besides Netflix or Spotify and something that is not too complicated to build, but hard enough to create. The student is going to work hard in the upcoming weeks on this final assignment, following the steps from the subject. This student needs to make a positive contribution to the implementation of this music streaming system.

## Assignment

The EnchantedEars user or role cannot perform queries but must use views, triggers, and stored procedures. Implement the following measures to improve the integrity of the database

### Primary Keys, Foreign Keys and Index

Provide the databases with primary and foreign keys if not yet provided. Pay attention to relationships and referential integrity. Also, provide the columns with an index wherever it is logical to do so.

### Constraints

Provide the database with a few constraints. Implement NOT NULL, UNIQUE, and CHECK for columns where it is logical to do so at least once. *Tip: CASCADE and NO ACTION are not the only actions that can follow after a constraint.*

### Views, Stored Procedures and Triggers

Realise two views, two stored procedures, and two triggers. Use views, stored procedures, and triggers for the right purposes.

### Referential integrity

Implement referential integrity for all foreign key constraints for a logical use case at least once.

**Note: You are not allowed to develop the queries that you designed in week 3. Deliver the above as a single week4.sql file. So all answers must have been applied in the database and the used queries must be delivered for the assessment**