

Enchanted Ears

Assignment 5: Database Recovery



Content

Content	2
Background	3
Assignment	3
Backup	3
Recovery	3
Concurrency	3

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

EnchantedEars aims to provide the current database with backup, recovery, and concurrency solutions. Execute the following assignments so that the Netflix database can be used in production.

Backup

Create a full, differential, and incremental backup and transaction log for the Netflix database using CREATE BACKUP statements. Deliver the SQL commands in a .sql file with the file name: **week5-1.sql**.

Recovery

Use the RESTORE statement to restore the database with a full, differential and incremental backup and transaction log. Implement a transaction for a logical use case. Deliver the SQL commands in a .sql file with the file name: **week5-2.sql**.

Concurrency

Reduce the chance of concurrency problems to a minimum using a query, for instance with phantom reads and deadlocks. In addition, create two transactions for logical use cases. Deliver the SQL commands in a .sql file with the file name: **week5-3.sql**.