

**COMP1044 Coursework 2 Part B**

**Group 23 – Bread**

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# Introduction

In this assignment, we document the changes made to the database structure, the creation of the database, and data insertion.

# ER diagram before changes

# ER Diagram after changes

# Changes made

In the previous assignment, we stated that ‘rental\_rate’ and ‘rental\_duration’ columns In the **Film** table are better suited in the **Rental** table, upon further inspection, ‘rental\_rate’ and ‘rental\_duration’ are actually part of **Film** since they describe the price of a title and the rental duration allowed for a title (Latest Marvel movie may be more in demand than "Mission Impossible 235: Electric Boogalo") so we will not move them.

Split ‘special\_features’ column in **Film** table into four separate BOOLEAN columns for Trailers, Deleted Scenes, Behind the Scenes, and Commentaries, such that it fits 3NF.

Fixed the circular foreign key design in **Store-Staff** relationship by introducing a **Store\_staff** link table.

Removed the ‘original\_language\_id’ column from **Film** table because it was filled with NULL values (data redundancy). Removed **Film\_text** table because it's just a repeat of two columns in the **Film** table (data redundancy).

Our entire project (including these reports and all source code and data) is hosted on GitHub.

You can check it out here: <https://github.com/unworthydata/COMP1044_CW2>