

COMP1044 Coursework 2 Part B Group 23 – Bread 06/04/2021

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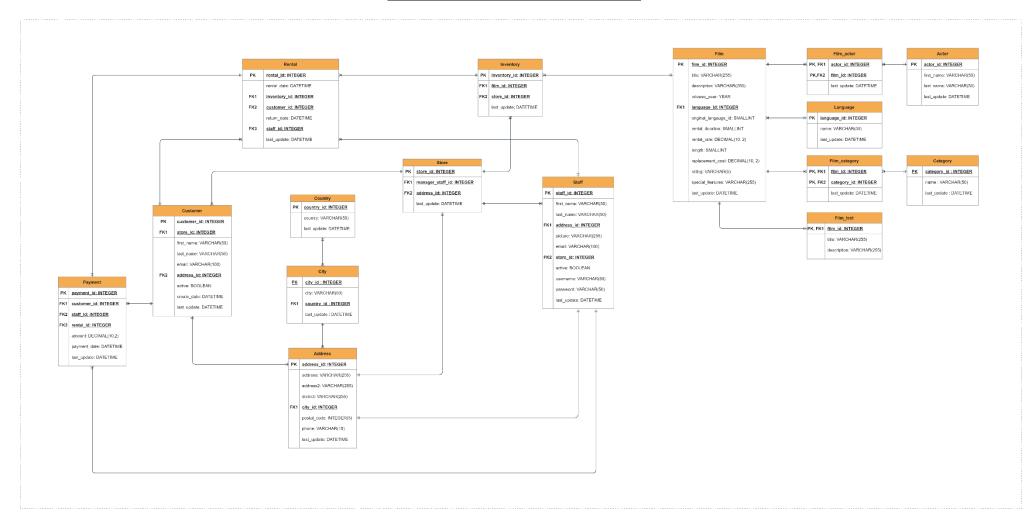
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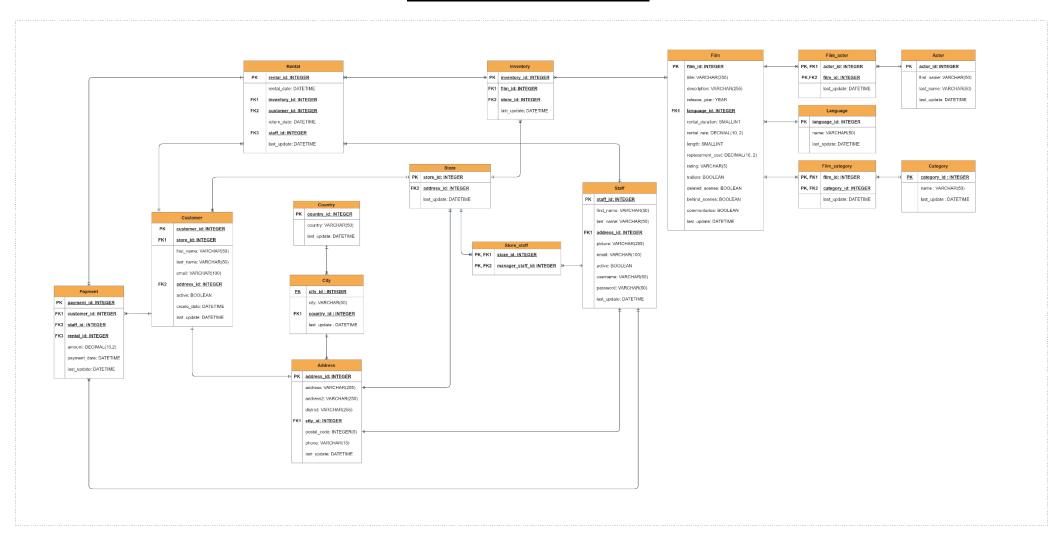
Introduction

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