

Sprint 1: Databases

Author: Chelsea Mayne (Slade)

Due Date: November 03, 2024

Normalization:

Explain how the tables (created using the previous queries) are each in 3NF.

Customers Table

The table is in 1NF (individual data only, no column with multiple values) and 2NF (non-key columns rely on primary key [id] only) and is also in 3NF as each non-key column is independent of other non-key columns (first_name, last_name, email, phone_num).

Movies Table

The table is in 1NF (individual data only, no column with multiple values) and 2NF (non-key columns rely on primary key [id] only) and is also in 3NF as each non-key column is not reliant on another non-key column.

Rentals Table

The table is in 1NF (individual data only, no column with multiple values) and 2NF (each non-key column is dependent on the composite primary keys customer_id and movie_id only), and is also in 3NF as each non-key column is not reliant on another non-key column. There is no transitive dependency in any non-key column.