Functional Dependencies

CUSTOMER

Custid → firstname

Custid → lastname

Custid → status

Custid → gender

Custid → dob

Custid → emailid

Custid → address

Custid → phoneno

emailid → Custid

emailid → firstname

emailid → lastname

emailid → status

emailid → gender

emailid → dob

emailid → address

emailid → phoneno

Both Custid and emailid can be keys. However, we will be using Custid as Primary Key. No BCNF violations.

CUSTOMER_RATING

Custid, film_id → title, rating

MVD:

Custid **->>** title, film_id, rating

GENRE

Genre_id → name

FILM

Film_id → title

Film_id → director

Film_id → production_company

Film_id → genre_id

Film_id → minimal_age

Film_id → film_episode_id

Title, film_episode_id → director

Title, film_episode_id → production_company

Title, film_episode_id → genre_id

Title, film_episode_id → minimal_age

Title, film_episode_id → film_id

MVD:

Title, film_episode_id **->>** director, production_company, genre_id, minimal_age, film_id

Film_id and (title, film_episode_id) form keys, so we are not splitting the table. There won't be any BCNF violations.

MEDIUM

Medium_id → medium_type

EXEMPLAR

Exemplar_id → Exemplar_name

Exemplar_id → address

Exemplar_id → phone_no

MOVIESOFFERED

offered_id → exemplar_id

offered_id → film_id

offered_id → medium_id

offered_id → price_per_day

offered_id → availability_status

BORROWING

Borrowing_id → offered_id

Borrowing_id → custid

Borrowing_id → start_date

Borrowing_id → end_date

Borrowing_id → total_price

Borrowing_id → VAT