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