**DBA 240 Final Project**

**SPRING 2019**

Jacob Hebert

**Relationship List**

Each MOVIE must be made of one MEDIA\_TYPE

Each MEDIA\_TYPE must describe one or more MOVIE

Each MOVIE can have multiple GENREs

Each GENRE may belong to one or more MOVIEs

Each CAST must belong to one MOVIE

Each CAST may have one or more MOVIE\_STARs in them

Each MOVIE must have only one RENTAL

Each RENTAL must have one or more MOVIEs

Each RENTAL\_STATUS must have only one RENTAL

Each RENTAL must have one or more RENTAL\_STATUS

Each RENTAL must have only one TRANSACTION

Each TRANSACTION must have one or more RENTALs

Each RENTAL must have only one CUSTOMER

Each CUSTOMER must have one or more RENTALs

Each CUSTOMER must have only one ACCOUNT

Each ACCOUNT must have only one CUSTOMER

Each TRANSACTION must have only one ACCOUNT

Each ACCOUNT must have one or more TRANSACTIONs

**Logical Design**

**MOVIE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Attribute Name | mv\_id | mt\_id | g\_id | mv\_title | mv\_stock\_qty | mv\_notes |
| Key Type | PK | FK | FK |  |  |  |
| Tags | # | # | # | \* | \* | o |
| Sample Data | 0 | 0 | 0 | Up | 4 | Special Edition |
|  | 1 | 0 | 1 | Gladiator | 2 | Extended |

**GENRE**

|  |  |  |
| --- | --- | --- |
| Attribute Name | g\_id | g\_description |
| Key Type | PK |  |
| Tags | # | \* |
| Sample Data | 0 | Comedy |
|  | 1 | Action |

**MEDIA\_TYPE**

|  |  |  |
| --- | --- | --- |
| Attribute Name | mt\_id | mt\_description |
| Key Type | PK |  |
| Tags | # | \* |
| Sample Data | 0 | DVD |
|  | 1 | VHS |

**CAST**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | mv\_id | ms\_id | c\_id |
| Key Type | FK | FK | PK |
| Tags | # | # | # |
| Sample Data | 0 | 0 | 1 |
|  | 1 | 0 | 1 |

**MOVIE\_STAR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute Name | ms\_id | ms\_first\_name | ms\_last\_name | ms\_dob | ms\_gender |
| Key Type | PK |  |  |  |  |
| Tags | # | \* | \* | \* | \* |
| Sample Data | 0 | Mel | Gibson | 01/01/1954 | M |
|  | 1 | Julia | Roberts | 02/24/1978 | F |

**RENTAL**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Attribute Name | r\_id | mv\_id | rs\_code | r\_date\_out | r\_date\_in | r\_notes |
| Key Type | PK | FK | FK |  |  |  |
| Tags | # | # | # | \* | \* | o |
| Sample Data | 0 | 0 | 0 | 01/14/2019 | 01/28/2019 | Returned |
|  | 1 | 0 | 1 | 01/29/2019 | 02/11/2019 | Still Out |

**RENTAL\_STATUS**

|  |  |  |
| --- | --- | --- |
| Attribute Name | rs\_code | rs\_description |
| Key Type | PK |  |
| Tags | # | \* |
| Sample Data | 0 | Returned on Time |
|  | 1 | Still Being Rented |

**TRANSACTION**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Attribute Name | t\_id | a\_id | r\_id | t\_date | t\_late\_check | t\_notes |
| Key Type | PK | FK | FK |  |  |  |
| Tags | # | # | # | \* | \* | o |
| Sample Data | 0 | 1 | 0 | 01/14/2019 | 01/29/2019 |  |
|  | 1 | 0 | 1 | 01/29/2019 | 02/11/2019 | Still Out |

**MEMBER**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Attribute Name | m\_id | m\_first\_name | m\_last\_name | m\_phone | m\_address | m\_notes |
| Key Type | PK |  |  |  |  |  |
| Tags | # | \* | \* | \* | \* | o |
| Sample Data | 0 | Jacob | Hebert | 919-123-4567 | 123 Hobb St | Satisfactory |
|  | 1 | Lindsay | Black | 919-234-5678 | 42 Wall St | Overdue |

**ACCOUNT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | a\_id | m\_id | a\_late\_info | a\_notes |
| Key Type | PK | FK |  |  |
| Tags | # | \* | o | o |
| Sample Data | 0 | 0 | None | On Time |
|  | 1 | 1 | Late | Overdue |