Rockbuster Stealth Data Dictionary

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# Fact Tables:

# 1.1 Payment

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| payment\_id (Primary Key) | SERIAL | A serial of unique numeric identifier for payment transaction |
| customer\_id (Foreign Key) | SMALLINT | small unique value assigned to each customer |
| staff\_id (Foreign Key) | SMALLINT | small unique value assigned to each staff |
| rental\_id (Foreign Key) | INTEGER | unique value assigned for each rental transaction |
| amount | NUMERIC(5,2) | amount paid for transaction in numeric values |
| payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | data and time for transaction |

# 1.2 Rental

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| rental\_id (Primary Key) | SERIAL | serial of unique numeric identifier for rental transaction |
| rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | data and time of rental |
| inventory\_id (Foreign Key) | INTEGER | unique value assigned for each item in inventory |
| customer\_id (Foreign Key) | SMALLINT | small unique value assigned to each customer |
| return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | data and time item were returned |
| staff\_id (Foreign Key) | SMALLINT | small unique value assigned to each staff |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 

# Dimension Tables:

# 2.1 Store

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| store\_id (Primary Key) | SERIAL | serial of unique numeric identifier for each Rockbuster store |
| manager\_staff\_id (Foreign Key) | SMALLINT | small unique value assigned to each manager |
| address\_id (Foreign Key) | SMALLINT | small unique value assigned to store |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.2 Staff

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| staff\_id (Primary Key) | SERial | serial of unique numeric identifier for each staff |
| first\_name | CHARACTER VARYING(45) | first name of staff |
| last\_name | CHARACTER VARYING(45) | last name of staff |
| address\_id (Foreign Key) | SMAILLINT | unique identifier assigned to address of the staff |
| email | CHARACTER VARYING(45) | email address of the staff |
| store\_id (Foreign Key) | SMALLINT | unique numeric identifier for each Rockbuster store |
| active | BOOLEAN | identifies if the staff member is active or not |
| username | CHARACTER VARYING(45) | username of the staff |
| password | CHARACTER VARYING(45) | password of the staff |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |
| picture | BYTEA | picture of the staff |

# 2.3 Film\_actor

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| actor\_id (Primary Key) | SMALLINT | small unique value assigned to actor |
| film\_id (Foreign Key) | SMALLINT | small unique value assigned to film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.4 Actor

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| actor\_id (Primary Key) | SMALLINT | small unique value assigned to actor |
| first\_name | CHARACTER VARYING(45) | first name of the actor |
| last\_name | CHARACTER VARYING(45) | last name of the actor |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.5 Inventory

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| inventory\_id (Primary Key) | INTEGER | unique value assigned for each item in inventory |
| film\_id (Foreign Key) | SMALLINT | small unique value assigned to film |
| store\_id (Foreign Key) | SMALLINT | unique numeric identifier for each Rockbuster store |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.6 Film\_category

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| film\_id (Foreign Key) | SMALLINT | small unique value assigned to film |
| category\_id (Foreign Key) | SMALLINT | small unique value assigned to film category |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.7 Category

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| category\_id (Primary Key) | SMALLINT | small unique value assigned to film category |
| name | CHARACTER VARYING(45) | genre of the film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.8 Customer

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| customer\_id (Primary Key) | INTEGER | unique value assigned to each customer |
| store\_id (Foreign Key) | SMALLINT | serial of unique numeric identifier for each Rockbuster store |
| first\_name | CHARACTER VARYING(45) | first name of the customer |
| last\_name | CHARACTER VARYING(45) | last name of the customer |
| email | CHARACTER VARYING(45) | email of the customer |
| address\_id (Foreign Key) | SMALLINT | unique value assigned to customer address |
| activebool | BOOLEAN | identify if customer is active or not (true/false) |
| create\_date | DATE | date entry was created |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |
| active | INTEGER | 1,0. If record is active or not |

# 2.9 Address

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| address\_id (Primary Key) | SMALLINT | unique value assigned to customer address |
| address | CHARACTER VARYING(45) | primary address of the customer |
| address 2 | CHARACTER VARYING(45) | secondary address of the customer |
| district | CHARACTER VARYING(45) | district of the customer |
| city\_id (Foreign Key) | SMALLINT | unique identifier for city |
| postal\_code | CHARACTER VARYING(45) | City zip code |
| phone | CHARACTER VARYING(45) | phone number of customer |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.10 City

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| city\_id (Primary Key) | SERIAL | serial of unique numeric identifier for each city |
| city | CHARACTER VARYING(50) | name of the city where the staff/customer lives |
| country\_id (Foreign Key) | SMAILLINT | unique value assigned to country |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.11 Country

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| country\_id (Primary Key) | SMAILLINT | unique value assigned to country |
| country | CHARACTER VARYING(50) | name of the country where the staff/customer lives |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 2.12 Film

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| film\_id (Primary Key) | INTEGER | unique value assigned to each customer |
| title | CHARACTER VARYING(45) | title of the film |
| description | TEXT | description of the film |
| release\_year | year | year the film was released |
| language\_id (Foreign Key) | SMALLINT | unique identifier for language of the film |
| rental\_duration | SMALLINT | number of days the film was rented for |
| rental\_rate | NUMERIC(4,2) | cost to rent per day |
| length | SMALLINT | duration of the film in minutes |
| replacement\_cost | NUMERIC(5,2) | cost of replacement |
| rating | mpaa\_rating | film’s rating |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |
| special\_feature | TEXT[] | additional features of the film |
| fulltext | TSVECTOR | keywords of the film |

# 2.11 Language

|  |  |  |
| --- | --- | --- |
| **Columns** | **Data Type** | **Description** |
| language\_id (Primary Key) | SERIAL | unique identifier for language of the film |
| name | CHARACTERS(20) | language used in the film |
| last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | date and time the record was updated |

# 3. Primary Key and Foreign Key References

* Primary Keys: Unique identifiers for each table (customer\_id, film\_id).
* Foreign Keys: Columns that establish relationships between tables (language\_id in film table links to language table).

# 4. ERD Diagram

Visual representation of the relationships between tables in the Rockbuster database:

A diagram of a company

Description automatically generated with medium confidence