

# Rockbuster Stealth Data Dictionary

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## 1. FACT TABLES

### 1.1 PAYMENT TABLE

- **Description:** Tracks payment transactions, including the amount and related customer and rental information.
- **Columns:**
  - payment\_id (Primary Key): Unique identifier for each payment.
  - customer\_id (Foreign Key): Identifier for the customer making the payment.
  - staff\_id (Foreign Key): Identifier for the staff handling the transaction.
  - rental\_id (Foreign Key): Identifier for the rental associated with the payment.
  - amount: Total amount of the payment.
  - payment\_date: Date and time when the payment was confirmed.
- **Relationships:** Links to the customer, staff, and rental tables.

### 1.2 RENTAL TABLE

- **Description:** Captures rental transactions, including rental and return dates.
- **Columns:**
  - rental\_id (Primary Key): Unique identifier for each rental.
  - rental\_date: Date and time when the unit was rented.
  - inventory\_id (Foreign Key): Unique identifier for the rented unit.
  - customer\_id (Foreign Key): Identifier for the customer renting the unit.
  - return\_date: Date and time when the rental was returned.
  - staff\_id (Foreign Key): Identifier for the staff handling the rental.
- **Relationships:** Links to the inventory, customer, and staff tables.

## 2. DIMENSION TABLES

### 2.1 CUSTOMER

- **Description:** Details about customers, including their activity status and contact details.
- **Columns:**
  - customer\_id (Primary Key): Unique identifier for each customer.
  - store\_id (Foreign Key): Identifier for the store associated with the customer.
  - first\_name: Customer's first name.
  - last\_name: Customer's last name.
  - email: Customer's email address.

- address\_id (Foreign Key): Identifier for the customer's address.
- activebool: Indicates if the customer is active.
- create\_date: Date the customer record was created.
- last\_update: Timestamp of the last record update.
- active: Status indicator (1 = active, 0 = inactive).
- **Relationships:** Links to store and address tables.

## 2.2 FILM

- **Description:** Details about films, including their rental characteristics and ratings.
- **Columns:**
  - film\_id (Primary Key): Unique identifier for each film.
  - title: Title of the film.
  - description: Short synopsis of the film.
  - release\_year: Release year of the film.
  - language\_id (Foreign Key): Identifier for the language of the film.
  - rental\_duration: Duration for which the film can be rented.
  - rental\_rate: Rental rate for the film.
  - replacement\_cost: Cost to replace the film if lost.
  - rating: MPAA rating of the film.
  - special\_features: List of special features (deleted scenes).
  - last\_update: Timestamp of the last record update.
- **Relationships:** Links to the language and film\_category tables.

## 2.3 INVENTORY

- **Description:** Tracks the inventory of films available in stores.
- **Columns:**
  - inventory\_id (Primary Key): Unique identifier for each inventory record.
  - film\_id (Foreign Key): Identifier for the film in inventory.
  - store\_id (Foreign Key): Identifier for the store holding the inventory.
  - last\_update: Timestamp of the last record update.
- **Relationships:** Links to film and store tables.

## 2.4 STORE

- **Description:** Details about stores, including their location and management.
- **Columns:**
  - store\_id (Primary Key): Unique identifier for each store.
  - manager\_staff\_id (Foreign Key): Identifier for the staff managing the store.
  - address\_id (Foreign Key): Identifier for the store's address.
  - last\_update: Timestamp of the last record update.
- **Relationships:** Links to address and staff tables.

## 2.5 ADDRESS

- **Description:** Stores address information for customers and stores.
- **Columns:**
  - address\_id (Primary Key): Unique identifier for each address.
  - address: First line of the address.
  - address2: Second line of the address (optional).
  - district: District or region of the address.
  - city\_id (Foreign Key): Identifier for the city.
  - postal\_code: Postal code for the address.
  - phone: Phone number associated with the address.
  - last\_update: Timestamp of the last record update.
- **Relationships:** Links to city table.

## 2.6 CITY

- **Description:** Information about cities.
- **Columns:**
  - city\_id (Primary Key): Unique identifier for each city.
  - city: Name of the city.
  - country\_id (Foreign Key): Identifier for the country.
  - last\_update: Timestamp of the last record update.
- **Relationships:** Links to the country table.

## 2.7 COUNTRY

- **Description:** Information about countries.
- **Columns:**

- country\_id (Primary Key): Unique identifier for each country.
- country: Name of the country.
- last\_update: Timestamp of the last record update.

## 2.8 LANGUAGE

- **Description:** Information about the languages available.
- **Columns:**
  - language\_id (Primary Key): Unique identifier for each language.
  - name: Name of the language.
  - last\_update: Timestamp of the last record update.

## 2.9 ACTOR

- **Description:** Information about actors featured in films.
- **Columns:**
  - actor\_id (Primary Key): Unique identifier for each actor.
  - first\_name: Actor's first name.
  - last\_name: Actor's last name.
  - last\_update: Timestamp of the last record update.

## 2.10 CATEGORY

- **Description:** Information about film categories.
- **Columns:**
  - category\_id (Primary Key): Unique identifier for each category.
  - name: Name of the category.
  - last\_update: Timestamp of the last record update.

## 3. PRIMARY 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. APPENDICES

### Sample Data:

#### Film Table (Sample Rows):

Film ID	Title	Rental Duration	Rental Rate	Replacement Cost	Rating
1	Academy Dinosaur	3	0.99	20.99	PG
2	Ace Goldfinger	3	Apr 99	Dec 99	PG-13

#### Customer Table (Sample Rows):

Customer ID	First Name	Last Name	Email	Active
1	Mary	Smith	mary.smith@example.com	1
2	John	Doe	john.doe@example.com	1

#### Payment Table (Sample Rows):

Payment ID	Customer ID	Rental ID	Amount	Payment Date
1	1	12	Mar 99	01.12.23 10:45
2	2	15	0.99	02.12.23 14:20

#### Rental Table (Sample Rows):

Rental ID	Rental Date	Return Date	Customer ID
10	01.12.23 09:00	02.12.23 09:00	1
11	01.12.23 11:00	03.12.23 11:00	2