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Rockbuster Stealth

Data Dictionary

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Diagram, schematic

Description automatically generated1. Entity Relationship Diagram (ERD) – ROCKBUSTER DATABASE

Figure 1 - Entity Relational Database for Rockbuster Stealth. This Diagram includes tables holding information on customers, staff, store, film rental, film information, payment, inventory, etc.

2. Fact Tables

2.1 Rent

|  |  |  |  |
| --- | --- | --- | --- |
| **Rent** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | rental\_id | SERIAL | ID of rental film |
|  | rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date of rental |
|  | inventory\_id | INTEGER | Inventory number |
|  | customer\_id | SMALLINT | Customer number |
|  | return\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date of return |
|  | staff\_id | SMALLINT | Staff ID |

2.2 Payment

|  |  |  |  |
| --- | --- | --- | --- |
| Payment | **Columns** | **Data Type** | **Description** |
| Key with solid fill | payment\_id | SERIAL | Payment ID number |
|  | customer\_id | SMALLINT | Customer ID number |
|  | staff\_id | SMALLINT | Staff ID number |
|  | rental\_id | INTENGER | Rental ID number |
|  | amount | NUMERICS(5,2) | Amount of rental USD |
|  | payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of payment |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date of last update on rental |

3. Dimension Tables

3.1. Film Actor

|  |  |  |  |
| --- | --- | --- | --- |
| **Film\_actor** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | actor\_id | SMALLINT | Actor ID number |
| Key with solid fill | film\_id | SMALLINT | Film ID number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.2 Inventory

|  |  |  |  |
| --- | --- | --- | --- |
| **Inventory** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | inventory\_id | SERIAL | Inventory ID number |
|  | film\_id | SMALLINT | Film ID number |
|  | store\_id | SMALLINT | Store ID number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.3 Film Category

|  |  |  |  |
| --- | --- | --- | --- |
| **Film\_category** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | film\_id | SMALLINT | Film ID number |
| Key with solid fill | category\_id | SMALLINT | Category ID number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.4 Customer

|  |  |  |  |
| --- | --- | --- | --- |
| **Customer** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | customer\_id | SERIAL | Customer ID number |
|  | store\_id | SMALLINT | Store ID number |
|  | first\_name | CHARACTER VARYING(45) | Customer’s first name |
|  | last\_name | CHARACTER VARYING(45) | Customer’s last name |
|  | email | CHARACTER VARYING(50) | Customer’s email |
|  | address\_id | SMALLINT | Customer’s address |
|  | activebool | BOOLEAN | Activebool |
|  | create\_date | DATE | Date created |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
|  | active | INTEGER | Active |

3.5 Staff

|  |  |  |  |
| --- | --- | --- | --- |
| **Staff** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | staff\_id | SERIAL | Staff ID number |
|  | first\_name | CHARACTER VARYING(45) | Staff’s first name |
|  | last\_name | CHARACTER VARYING(45) | Staff’s last name |
|  | address\_id | SMALLINT | Staff’s address |
|  | email | CHARACTER VARYING(50) | Staff’s email |
|  | store\_id | SMALLINT | Store ID number |
|  | active | BOOLEAN | Active |
|  | username | CHARACTER VARYING(16) | Staff’s username |
|  | password | CHARACTER VARYING(40) | Staff’s password |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
|  | picture | BYTEA | Staff’s picture |

3.6 Actor

|  |  |  |  |
| --- | --- | --- | --- |
| **Actor** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | actor\_id | SERIAL | Actor’s ID number |
|  | first\_name | CHARACTER VARYING(45) | Actor’s first name |
|  | last\_name | CHARACTER VARYING(45) | Actor’s last name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.7 Film

|  |  |  |  |
| --- | --- | --- | --- |
| **Film** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | film\_id | SERIAL | Film ID number |
|  | title | CHARACTER VARYING(225) | Film title |
|  | description | TEXT | Film description |
|  | release\_year | year | Year film was released |
|  | language\_id | SMALLINT | Language of film |
|  | rental\_duration | SMALLINT | Rental duration |
|  | rental\_rate | NUMERIC(5,2) | Rental rate |
|  | length | SMALLINT | Length of film |
|  | replacement\_cost | NUMERIC(5,2) | Film replacement cost |
|  | rating | mpaa\_rating | Film rating |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |
|  | special\_features | TEXT | Special features |
|  | fulltext | TSVECTOR | Fulltext |

3.8 Category

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | category\_id | SERIAL | Category ID number |
|  | name | CHARACTER VARYING(25) | Category name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.9 Language

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | language\_id | SERIAL | Language ID |
|  | name | CHARACTERS(20) | Language name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.10 Address

|  |  |  |  |
| --- | --- | --- | --- |
| **Address** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | address\_id | SERIAL | Address ID number |
|  | address | CHARACTER VARYING(50) | Address |
|  | address2 | CHARACTER VARYING(50) | Address 2 |
|  | district | CHARACTER VARYING(20) | District |
|  | city\_id | SMALLINT | City ID number |
|  | postal\_code | CHARACTER VARYING(10) | Postal Code |
|  | phone | CHARACTER VARYING(20) | Phone number |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.11 City

|  |  |  |  |
| --- | --- | --- | --- |
| **City** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | city\_id | SERIAL | City ID number |
|  | city | CHARACTER VARYING(50) | City name |
|  | country\_id | SMALLINT | Country |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.12 Country

|  |  |  |  |
| --- | --- | --- | --- |
| **Country** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | country\_id | SERIAL | Country ID number |
|  | country | CHARACTER VARYING(50) | Country name |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |

3.13 Store

|  |  |  |  |
| --- | --- | --- | --- |
| **Store** | **Columns** | **Data Type** | **Description** |
| Key with solid fill | store\_id | SERIAL | Store ID number |
|  | manager\_staff\_id | SMALLINT | Manager ID number |
|  | address\_id | SMALLINT | Store address |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time of last update |