**A movie reel with a hand holding a key

Description automatically generated with medium confidence**

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**ROCKBUSTER STEALTH LLC DATABASE ENTITY RELATIONSHIP DIAGRAM (ERD)**

A screenshot of a computer screen

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMNS** | **KEY** | **DATA TYPE** | **LINK TO** | **DESCRIPTION** |

**FACT TABLES**

**PAYMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PAYMENT\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING PAYMENT |
| CUSTOMER\_ID | FOREIGN | SMALLINT | CUSTOMER | UNIQUE NUMBER IDENTIFYING CUSTOMER |
| STAFF\_ID | FOREIGN | SMALLINT | STAFF | UNIQUE NUMBER IDENTIFYING STAFF MEMBER |
| RENTAL\_ID | FOREIGN | INTEGER | RENTAL | UNIQIE NUMBER IDENTIFYING RENTAL |
| AMOUNT |  | NUMERIC (5,2) |  | AMOUNT PAID FOR RENTAL |

**RENTAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RENTAL\_ID | PRIMARY | INTEGER |  | UNIQIE NUMBER IDENTIFYING RENTAL |
| RENTAL\_DATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF RENTAL |
| INVENTORY\_ID | FOREIGN | INTEGER | INVENTORY | UNIQIE NUMBER IDENTIFYING POSITION IN INVENTORY |
| CUSTOMER\_ID | FOREIGN | SMALLINT | CUSTOMER | UNIQUE NUMBER IDENTIFYING CUSTOMER |
| RETURN\_DATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE RENTAL WAS RETURNED |
| STAFF\_ID | FOREIGN | SMALLINT | STAFF | UNIQUE NUMBER IDENTIFYING STAFF MEMBER |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMNS** | **KEY** | **DATA TYPE** | **LINK TO** | **DESCRIPTION** |

**DIMENSION TABLES**

**STORE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STORE\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING STORE |
| MANAGER\_STAFF\_ID | FOREIGN | SMALLINT | STAFF | UNIQUE NUMBER IDENTIFYING STORE MANAGER |
| ADDRESS\_ID | FOREIGN | SMALLINT | ADDRESS | UNIQUE NUMBER IDENTIFYING ADDRESS |
| LAST\_UPDATE |  | TIMESTAMP (6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**FILM\_ACTOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ACTOR\_ID | PRIMARY | SMALLINT | ACTOR | UNIQUE NUMBER IDENTIFYING ACTOR |
| FILM\_ID | CANDIDATE | SMALLINT | FILM | UNIQUE NUMBER IDENTIFYING FILM |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**INVENTORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| INVENTORY\_ID | PRIMARY | INTEGER |  | UNIQIE NUMBER IDENTIFYING POSITION IN INVENTORY |
| FILM\_ID | FOREIGN | SMALLINT | FILM | UNIQUE NUMBER IDENTIFYING FILM |
| STORE\_ID |  | SMALLINT |  | UNIQUE NUMBER IDENTIFYING STORE |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**FILM\_CATEGORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FILM\_ID | PRIMARY | SMALLINT | FILM | UNIQUE NUMBER IDENTIFYING FILM |
| CATEGORY\_ID | CANDIDATE | SMALLINT | FILM | UNIQUE NUMBER IDENTIFYING CATEGORY |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**CUSTOMER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CUSTOMER\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING CUSTOMER |
| STORE\_ID |  | SMALLINT |  | UNIQUE NUMBER IDENTIFYING STORE |
| FIRST\_NAME |  | VARCHAR(45) |  | FIRST NAME OF CUSTOMER |
| LAST\_NAME |  | VARCHAR(45) |  | LAST NAME OF CUSTOMER |
| EMAIL |  | VARCHAR(50) |  | EMAIL ADDRESS OF CUSTOMER |
| ADDRESS\_ID | FOREIGN | SMALLINT | ADDRESS | UNIQUE NUMBER IDENTIFYING ADDRESS |
| ACTIVEBOOL |  | BOOLEAN |  | BINARY IDENTIFIER FOR CUSTOMER ACCOUNT ACTIVITY |
| CREATE\_DATE |  | DATE |  | DATE CUSTOMER ACCOUNT WAS CREATED |
| LAST\_UPDATE |  | TIMESTAMP(6)WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |
| ACTIVE |  | INTEGER |  | BINARY IDENTIFIER FOR CUSTOMER ACCOUNT ACTIVITY |

**STAFF**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STAFF\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING STAFF |
| FIRST\_NAME |  | VARCHAR(45) |  | STAFF MEMBER FIRST NAME |
| LAST\_NAME |  | VARCHAR(45) |  | STAFF MEMBER LAST NAME |
| ADDRESS\_ID | FOREIGN | SMALLINT | ADDRESS | UNIQUE NUMBER IDENTIFYING ADDRESS |
| EMAIL |  | VARCHAR(50) |  | STAFF MEMBER EMAIL |
| STORE\_ID |  | SMALLINT |  | UNIQUE NUMBER IDENTIFYING STORE |
| ACTIVE |  | BOOLEAN |  | BINARY IDENTIFIER FOR STAFF MEMBER ACTIVITY |
| USERNAME |  | VARCHAR(16) |  | STAFF MEMBER USERNAME |
| PASSWORD |  | VARCHAR(40) |  | STAFF MEMBER PASSWORD |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |
| PICTURE |  | BYTEA |  | PICTURE OF STAFF MEMBER |

**ACTOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ACTOR\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING ACTOR |
| FIRST\_NAME |  | VARCHAR(45) |  | FIRST NAME OF ACTOR |
| LAST\_NAME |  | VARCHAR(45) |  | LAST NAME OF ACTOR |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**FILM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FILM\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING FILM |
| TITLE |  | VARCHAR(255) |  | NAME OF FILM |
| DESCRIPTION |  | TEXT |  | WRITTEN DESCRIPTION OF FILM |
| RELEASE\_YEAR |  | YEAR |  | RELEASE YEAR OF FILM |
| LANGUAGE\_ID | FOREIGN | SMALLINT | LANGUAGE | UNIQUE NUMBER IDENTIFYING LANGUAGE |
| RENTAL\_DURATION |  | SMALLINT |  | LENGTH OF RENTIAL |
| RENTAL\_RATE |  | NUMERIC(4,2) |  | PRICE OF RENTAL |
| LENGTH |  | SMALLINT |  | LENGTH OF FILM IN MINUTES |
| REPLACEMENT\_COST |  | NUMERIC(5,2) |  | COST TO REPLACE FILM IN INVENTORY |
| RATING |  | MPAA\_RATING |  | MPAA RATING OF FILM |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |
| SPECIAL\_FEATURES |  | TEXT |  | DESCRIPTION OF FILM SPECIAL FEATURES |
| FULLTEXT |  | TSVECTOR |  | DESCRIPTION OF FILM OPTIMIZED FOR TEXT SEARCH |

**CATEGORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATEGORY\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING CATEGORY |
| NAME |  | VARCHAR(25) |  | NAME OF FILM CATEGORY |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**ADDRESS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ADDRESS\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING ADDRESS |
| ADDRESS |  | VARCHAR(50) |  | ADDRESS OF STORE |
| ADDRESS2 |  | VARCHAR(50) |  | ADDITIONAL ADDRESS OF STORE |
| DISTRICT |  | VARCHAR(20) |  | DISTRICT OF STORE ADDRESS |
| CITY\_ID | FOREIGN | SMALLINT | CITY | UNIQUE NUMBER IDENTIFYING CITY |
| POSTAL\_CODE |  | VARCHAR(10) |  | POSTAL CODE OF STORE |
| PHONE |  | VARCHAR(20) |  | STORE PHONE NUMBER |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**LANGUAGE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LANGUAGE\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING LANGUAGE OF FILM |
| NAME |  | CHARACTER(20) |  | NAME OF LANGUAGE |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**CITY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CITY\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING CITY |
| CITY |  | VARCHAR(50) |  | NAME OF CITY |
| COUNTRY\_ID | FOREIGN | SMALLINT | COUNTRY | UNIQUE NUMBER IDENTIFYING COUNTRY |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**COUNTRY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COUNTRY\_ID | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING COUTRY |
| COUNTRY |  | VARCHAR(50) |  | NAME OF COUNTRY |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |

**EMPLOYEES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMPLOYEE\_ID |  | VARCHAR(30) |  | UNIQUE NUMBER IDENTIFYING EMPLOYEE |
| EMP\_NAME |  | VARCHAR(50) |  | NAME OF EMPLOYEE |
| CONTACT\_NUMBER |  | VARCHAR(30) |  | CONTACT PHONE NUMBER FOR EMPLOYEE |
| DESIGNATION\_ID |  | INTEGER |  | UNIQUE NUMBER IDENTIFYING EMPLOYEE DESIGNATION |
| LAST\_UPDATE |  | TIMESTAMP(6) WITHOUT TIME ZONE |  | DATE OF LAST UPDATE |
| EMPLOYEE\_PKEY | PRIMARY | INTEGER |  | UNIQUE NUMBER IDENTIFYING EMPLOYEE |

**NEW\_FILM\_ID**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FILM\_ID |  | INTEGER |  | UNIQUE NUMBER IDENTIFYING FILM |
| TITLE |  | VARCHAR(255) |  | NAME OF FILM |
| DESCRIPTION |  | TEXT |  | DESCRIPTION OF FILM |
| RELEASE\_YEAR |  | INTEGER |  | YEAR OF FILM RELEASE |
| LANGUAGE\_ID |  | VARCHAR(30) |  | UNIQUE NUMBER IDENTIFYING LANGUAGE |

**INVOICEITEM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DESCRIPTION | PRIMARY | INTEGER |  | NUMBER IDENTIFYING INVOICE |
| QUANTITY |  | NUMERIC(1000,0) |  | PRICE PAID ON INVOICE |
| CUSTOMER\_FIRST\_NAME |  | VARCHAR(20) |  | FIRST NAME OF CUSTOMER |
| CUSTOMER\_LAST\_NAME |  | VARCHAR(20) |  | LAST NAME OF CUSTOMER |

**INVOICES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| INVOICE | PRIMARY | INTEGER |  | NUMBER IDENTIFYING CUSTOMER |
| COMPANY |  | VARCHAR(100) |  | NAME OF COMPANY ATTACHED TO INVOICE |
| PRICE |  | NUMERIC(10,2) |  | PRICE PAID ON INVOICE |

**PAYEE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PAYMENT\_TO | PRIMARY | INTEGER |  | COMPANY PAID ON INVOICE |
| ACCOUNT\_NO |  | VARCHAR(100) |  | UNIQUE NUMBER IDENTIFYING ACCOUNT |
| ADDRESS |  | TEXT |  | ADDRESS OF PAYEE ON INVOICE |