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 (e.g., 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 (e.g., customer_id, film_id). **Foreign Keys:** Columns that establish relationships between tables (e.g., language_id in the film table links to the language table).

PRIMARY TABLE	RELATED TABLE	COLUMN NAME	DESCRIPTION
CUSTOMER ACTIVITY FACT TABLE	CUSTOMER TABLE	CUSTOMER_ID	LINKS TO CUSTOMER TABLE VIA CUSTOMER_ID
CUSTOMER ACTIVITY FACT TABLE	FILM TABLE	FILM_ID	LINKS TO FILM TABLE VIA FILM_ID.
CUSTOMER ACTIVITY FACT TABLE	CATEGORY TABLE (GENRE)	GENRE	LINKS TO CATEGORY TABLE VIA GENRE.
CUSTOMER ACTIVITY FACT TABLE	ACTOR TABLE	ACTOR_NAME	LINKS TO ACTOR TABLE VIA ACTOR_NAME (VIA FILM_ACTOR TABLE).
CUSTOMER ACTIVITY FACT TABLE	PAYMENT TABLE	TOTAL_PAYMENTS	LINKS TO PAYMENT TABLE VIA TOTAL_PAYMENTS.

4. APPENDICES

Below is a visual representation of the relationships between tables in the Rockbuster database: