📖 Rockbuster Stealth Data Dictionary

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Project: Rockbuster Stealth Data Analysis Project
Document: Data Dictionary (Achievement 3 Deliverable)
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Date: 14.11.2025

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1. Introduction

This document provides a technical reference for the core relational tables used in the Rockbuster Stealth data analysis project. It defines the structure, data types, and critical relationships (keys) between the tables within the PostgreSQL database.

2. Data Dictionary

2.1 customer (Dimension/Fact)

This table holds information about each customer, including their name, email, and activity status. It acts as both a Dimension (describing the customer) and a bridge to the Fact tables.
- **Columns Acting as Unique Keys (Primary Key):**
  - customer_id
- **Columns it Links To (Foreign Keys - FKs):**
  - address_id (Links to the **address** table)
  - store_id (Links to the **store** table - *implied*)
- **Columns it Links From (Primary Keys of other tables):**
  - customer_id (Used as a Foreign Key in the **payment** and **rental** tables)

2.2 address (Dimension)

This table contains detailed geographical address information for customers and stores.
- **Columns Acting as Unique Keys (Primary Key):**
  - address_id
- **Columns it Links To (Foreign Keys - FKs):**
  - city_id (Links to the **city** table)

- **Columns it Links From (Primary Keys of other tables):**
  - address_id (Used as a Foreign Key in the **customer** and **store** tables)

2.3 city (Dimension)

This table stores the names of cities.
- **Columns Acting as Unique Keys (Primary Key):**
  - city_id
- **Columns it Links To (Foreign Keys - FKs):**
  - country_id (Links to the **country** table)
- **Columns it Links From (Primary Keys of other tables):**
  - city_id (Used as a Foreign Key in the **address** table)

2.4 country (Dimension)

This table stores the names of countries.
- **Columns Acting as Unique Keys (Primary Key):**
  - country_id
- **Columns it Links To (Foreign Keys - FKs):**
  - N/A (This is a top-level dimension table)
- **Columns it Links From (Primary Keys of other tables):**
  - country_id (Used as a Foreign Key in the **city** table)

2.5 payment (Fact)

This table records every transaction/payment made by customers. It is a Fact table, recording events and measures (amount).
- **Columns Acting as Unique Keys (Primary Key):**
  - N/A (Often uses a composite key or a unique payment_id - *Check your schema if available*)
- **Columns it Links To (Foreign Keys - FKs):**
  - customer_id (Links to the **customer** table)
  - rental_id (Links to the **rental** table - *implied*)
  - staff_id (Links to the **staff** table - *implied*)
- **Columns it Links From (Primary Keys of other tables):**
  - N/A

2.6 film (Dimension)

This table contains descriptive information about each movie in the inventory.
- **Columns Acting as Unique Keys (Primary Key):**
  - film_id
- **Columns it Links To (Foreign Keys - FKs):**
  - language_id (Links to the **language** table - *implied*)
  - original_language_id (Links to the **language** table - *implied*)
- **Columns it Links From (Primary Keys of other tables):**
  - film_id (Used as a Foreign Key in the **inventory** table)