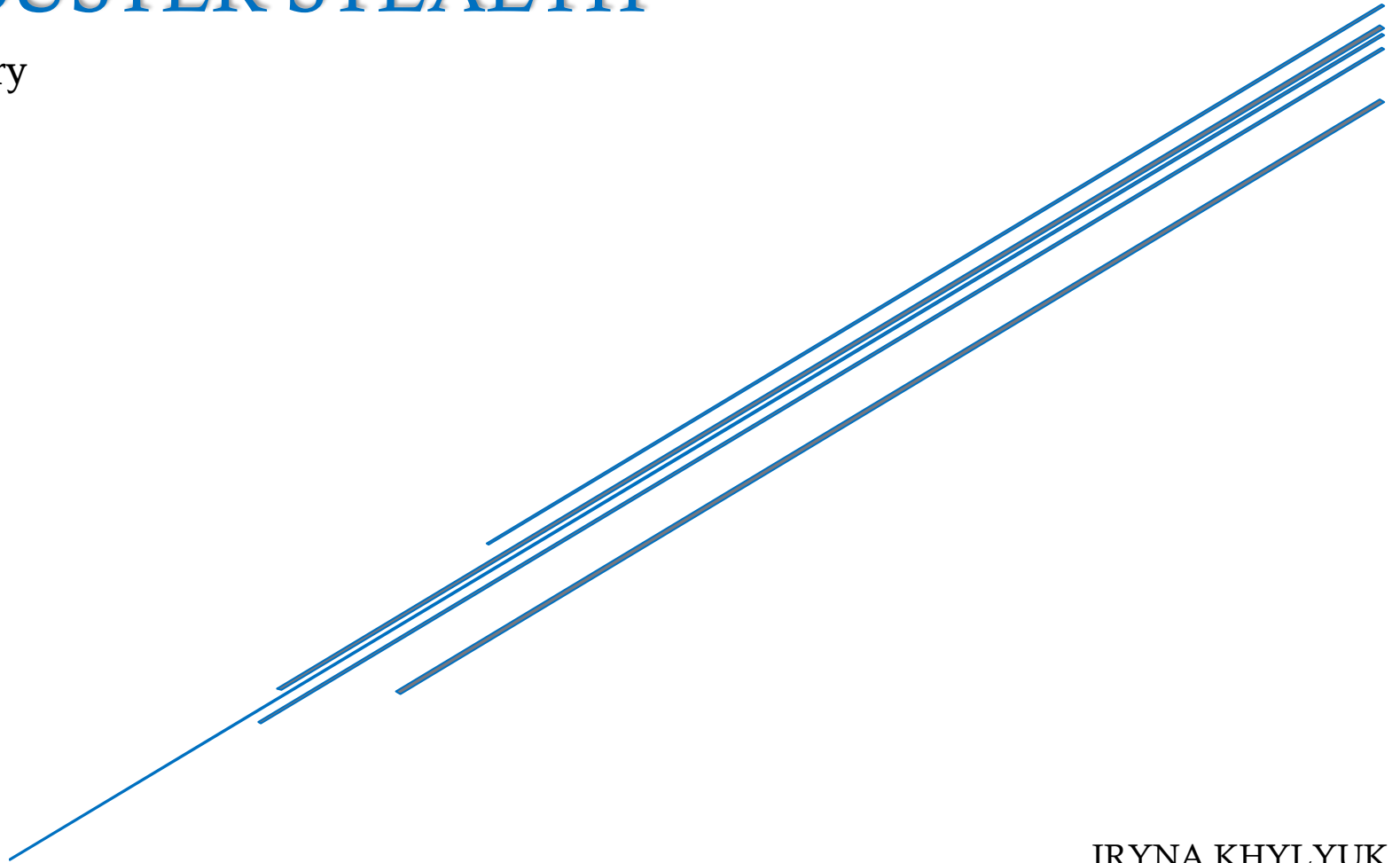


ROCKBUSTER STEALTH

Data Dictionary



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Entity Relationship Diagram (ERD)



Primary key







Foreign key

1 Fact Table

1.1 Table: Payment

This table stores information about payments made by customers at Rockbuster.





Columns

	NAME	DATA TYPE	DESCRIPTION
	Payment_id	SERIAL	Unique payment identifier
	Customer_ID	SMALLINT	Unique customer identifier
	Staff_ID	SMALLINT	Unique staff identifier
	Rental_ID	SERIAL	Unique rental identifier
	Amount	NUMERIC (5,2)	Amount of payment received
	Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of payment

Links to

TABLE	JOIN	DESCRIPTION
Customer	payment.customer_id = customer.customer_id	Foreign key reference to customer table
Staff	payment.staff_id = staff.staff_id	Foreign key reference to staff table
Rental	payment.rental_id = rental.rental_id	Foreign key reference to rental table





Unique keys

	NAME	DESCRIPTION
	Payment_id	Unique key identifier for payment
	Customer_ID	Unique key identifier for customer
	Staff_ID	Unique key identifier for staff
	Rental_ID	Unique key identifier for rental

1.2 Table: Rental

This table captures transactional data related to rentals at Rockbuster and represents the central fact table in the schema.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Rental_id	SERIAL	Unique rental identifier
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental
	Inventory_id	INTEGER	Unique inventory identifier
	Customer_id	SMALLINT	Unique customer identifier
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of return
	Staff_id	SMALLINT	Unique staff identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update



Links to



TABLE	JOIN	DESCRIPTION
Customer	rental.customer_id = customer.customer_id	Foreign key reference to customer table
Staff	rental.staff_id = staff.staff_id	Foreign key reference to staff table
Inventory	rental.inventory_id = inventory.inventory_id	Foreign key reference to inventory table

Linked from

TABLE	JOIN	DESCRIPTION
payment	payment.payment_id = rental.payment_id	Foreign key reference to payment table

Unique keys

	NAME	DESCRIPTION
	Rental_id	Unique key identifier for rental
	Customer_ID	Unique key identifier for customer




	Staff_ID	Unique key identifier for staff
	Inventory_ID	Unique key identifier for inventory

2 Dimension Table

2.1 Table: Store

This table represents the stores in the Rockbuster database.




Columns

	NAME	DATA TYPE	DESCRIPTION
	Store_id	SERIAL	Unique store identifier
	Manager_staff_id	SMALLINT	Unique manager staff identifier
	Address_id	SMALLINT	Unique store address identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to

TABLE	JOIN	DESCRIPTION
Staff	store.manager_staff_id = staff.staff_id	Foreign key reference to staff table
Address	store.address_id = address.address_id	Foreign key reference to address table





Unique keys

	NAME	DESCRIPTION
	Store_id	Unique store identifier
	Manager_staff_id	Unique manager staff identifier
	Address_id	Unique store address identifier

2.2 Table: Film_actor

This table represents the association between actors and films in Rockbuster's movie collection.



Columns

	NAME	DATA TYPE	DESCRIPTION
 	Actor_id	SMALLINT	Unique actor identifier
 	Film_id	SMALLINT	Unique film identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to

TABLE	JOIN	DESCRIPTION
Actor	Film_actor.actor_id = actor.actor_id	Foreign key reference to actor table
Film	Film_actor.film_id = film.film_id	Foreign key reference to film table


Unique keys




	NAME	DESCRIPTION
	Actor_id	Unique actor identifier
	Film_id	Unique film identifier

2.3 Table: Film_category

This table represents the association between films and categories in Rockbuster's movie collection.

Columns



	NAME	DATA TYPE	DESCRIPTION
	Film_id	SMALLINT	Unique film identifier

			
 	Category_id	SMALLINT	Unique category identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Links to

TABLE	JOIN	DESCRIPTION
Film	Film_category.film_id = film.film_id	Foreign key reference to film table
Category	Film_category.category_id = category.category_id	Foreign key reference to category table



Unique keys

	NAME	DESCRIPTION
	Film_id	Unique film identifier
	Category_id	Unique category identifier

2.4 Table: Inventory

This table represents the inventory of films in Rockbuster's stores.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Inventory_id	SERIAL	Unique inventory identifier
	Film_id	SMALLINT	Unique film identifier
	Store_id	SMALLINT	Unique store identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update



Links to

TABLE	JOIN	DESCRIPTION
Film	inventory.film_id = film.film_id	Foreign key reference to inventory table

Linked from

TABLE	JOIN	DESCRIPTION
rental	rental.inventory_id = inventory.inventory_id	Foreign key reference to rental table


Unique keys

	NAME	DESCRIPTION
	Inventory_id	Unique inventory identifier
	Film_id	Unique film identifier

2.5 Table: Actor

This table stores information about actors involved in Rockbuster's movie collection.


Columns

	NAME	DATA TYPE	DESCRIPTION
	Actor_id	SERIAL	Unique actor identifier
	First_name	CHARACTER VARYING (45)	First name actor
	Last_name	CHARACTER VARYING (45)	Last name actor
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Linked from

TABLE	JOIN	DESCRIPTION
Film_actor	Film_actor.actor_id = actor.actor_id	Foreign key reference to film_actor table



Unique keys

	NAME	DESCRIPTION
	Actor_id	Unique actor identifier

2.6 Table: Film

This table represents the films in Rockbuster's movie collection.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Film_id	SERIAL	Unique film identifier
	title	CHARACTER VARYING (255)	Film title
	description	TEXT	Description of film
	Release_year	YEAR	Year of release
	Language_id	SMALLINT	Unique language identifier
	Rental duration	SMALLINT	Rental duration
	Rental_rate	NUMERIC (5.2)	Rental rate of film
	length	SMALLINT	Length of film
	Replacement_cost	NUMERIC (5.2)	Cost of replacement of film
	rating	Mpaa_rating	Rating of film
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	Special_features	TEXT []	Special features of film
	fulltext	TSVECTOR	List of keywords and positions



Links to

TABLE	JOIN	DESCRIPTION
Language	film.language_id = language.language_id	Foreign key reference to language table

Linked from

TABLE	JOIN	DESCRIPTION
Film_actor	Film_actor.film_id = film.film_id	Foreign key reference to inventory table
Inventory	inventory.film_id = film.film_id	Foreign key reference to inventory table
Film_category	Film_category.film_id = film.film_id	Foreign key reference to inventory table


Unique keys

	NAME	DESCRIPTION
	Film_id	Unique film identifier
	Language_id	Unique language identifier

2.7 Table: Category

This table represents the categories associated with Rockbuster's movie collection.


Columns

	NAME	DATA TYPE	DESCRIPTION
	Category_id	SERIAL	Unique category identifier
	name	CHARACTER VARYING (45)	Name of category
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Linked from

TABLE	JOIN	DESCRIPTION
Film_category	Film_category.category_id = category.category_id	Foreign key reference to film_category table



Unique keys

	NAME	DESCRIPTION
	Category_id	Unique category identifier

2.8 Table: Customer

This table represents the customers associated with Rockbuster's movie collection.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Customer_id	SERIAL	Unique customer identifier
	Store_id	SMALLINT	Unique store identifier
	First name	CHARACTER VARYING (45)	First customer name
	Last_name	CHARACTER VARYING (45)	Last customer name
	email	CHARACTER VARYING (50)	Email customer
	Address_id	SMALLINT	Unique address identifier
	activebool	BOOLEAN	Whether customer is active
	Create date	DATE	Date of creation
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	active	INTEGER	Customer status (1 s active)



Links to

TABLE	JOIN	DESCRIPTION
Address	customer.address_id = address.address_id	Foreign key reference to address table

Linked from

TABLE	JOIN	DESCRIPTION
Rental	rental.customer_id = customer.customer_id	Foreign key reference to rental table
Payment	payment.customer_id = customer.customer_id	Foreign key reference to payment table



Unique keys

	NAME	DESCRIPTION
	Customer_id	Unique customer identifier
	Address_id	Unique address identifier

2.9 Table: Staff

This table stores information about staff members who work at Rockbuster.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Staff_id	SERIAL	Unique staff identifier
	First name	CHARACTER VARYING (45)	First name of staff
	Last_name	CHARACTER VARYING (45)	Last name of staff
	Address_id	SMALLINT	Unique address identifier
	email	CHARACTER VARYING (50)	Email staff
	Store_id	SMALLINT	Unique store identifier
	active	BOOLEAN	Status of staff
	Username	CHARACTER VARYING (16)	Username of staff
	password	CHARACTER VARYING (40)	Password of staff
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update
	picture	BYTEA	Picture of staff

Links to



TABLE	JOIN	DESCRIPTION
Address	staff.address_id = address.address_id	Foreign key reference to address table

Linked from

TABLE	JOIN	DESCRIPTION
Store	store.staff_id = staff.staff_id	Foreign key reference to store table

Rental	rental.staff_id = staff.staff_id	Foreign key reference to rental table
Payment	payment.staff_id = staff.staff_id	Foreign key reference to payment table



Unique keys

	NAME	DESCRIPTION
	Staff_id	Unique staff identifier
	Address_id	Unique address identifier

2.10 Table: Address

This table represents the addresses related to Rockbuster's movie collection.

Columns

	NAME	DATA TYPE	DESCRIPTION
	Address_id	SERIAL	<u>Unique address identifier</u>
	address	CHARACTER VARYING (50)	Address
	Address2	CHARACTER VARYING (50)	Address
	district	CHARACTER VARYING (50)	Name of district
	city_id	SMALLINT	<u>Unique city identifier</u>
	Postal code	CHARACTER VARYING (10)	Postal code
	phone	CHARACTER VARYING (20)	Phone number
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update



Links to

TABLE	JOIN	DESCRIPTION
City	address.address_id = city.address_id	Foreign key reference to city table

Linked from

TABLE	JOIN	DESCRIPTION
Store	store.address_id = address.address_id	Foreign key reference to store table
Staff	Staff.address_id = address.address_id	Foreign key reference to staff table
Customer	customer.address_id = address.address_id	Foreign key reference to customer table



Unique keys

	NAME	DESCRIPTION
	Address_id	Unique address identifier
	city_id	Unique city identifier

2.11 Table: City

This table represents the cities related to Rockbuster's movie collection.

Columns

	NAME	DATA TYPE	DESCRIPTION
	City_id	SERIAL	Unique city identifier
	City	CHARACTER VARYING (50)	Name of city
	Country_id	SMALLINT	Unique country identifier
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update



Links to

TABLE	JOIN	DESCRIPTION
Country	city.country_id = country.country_id	Foreign key reference to country table

Linked from

TABLE	JOIN	DESCRIPTION
Address	address.city_id = city.city_id	Foreign key reference to address table


Unique keys

	NAME	DESCRIPTION
	city_id	Unique city identifier
	country_id	Unique country identifier

2.12 Table: Country

This table represents the countries related to Rockbuster's movie collection.


Columns

	NAME	DATA TYPE	DESCRIPTION
	Country_id	SERIAL	Unique country identifier
	Counrty	CHARACTER VARYING (50)	Name of country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Linked from

TABLE	JOIN	DESCRIPTION
city	City.country_id = country.country_id	Foreign key reference to city table


Unique keys

	NAME	DESCRIPTION
	country_id	Unique country identifier

2.13 Table: Language

This table stores information about the languages used in films at Rockbuster.


Columns

	NAME	DATA TYPE	DESCRIPTION
	language_id	SERIAL	Unique language identifier
	name	CHARACTER VARYING (20)	Name of language
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date of last update

Linked from

TABLE	JOIN	DESCRIPTION
Film	film.language_id = language.language_id	Foreign key reference to film table

Unique keys

	NAME	DESCRIPTION
	language_id	Unique language identifier