



RockBuster Stealth LLC, Data Dictionary

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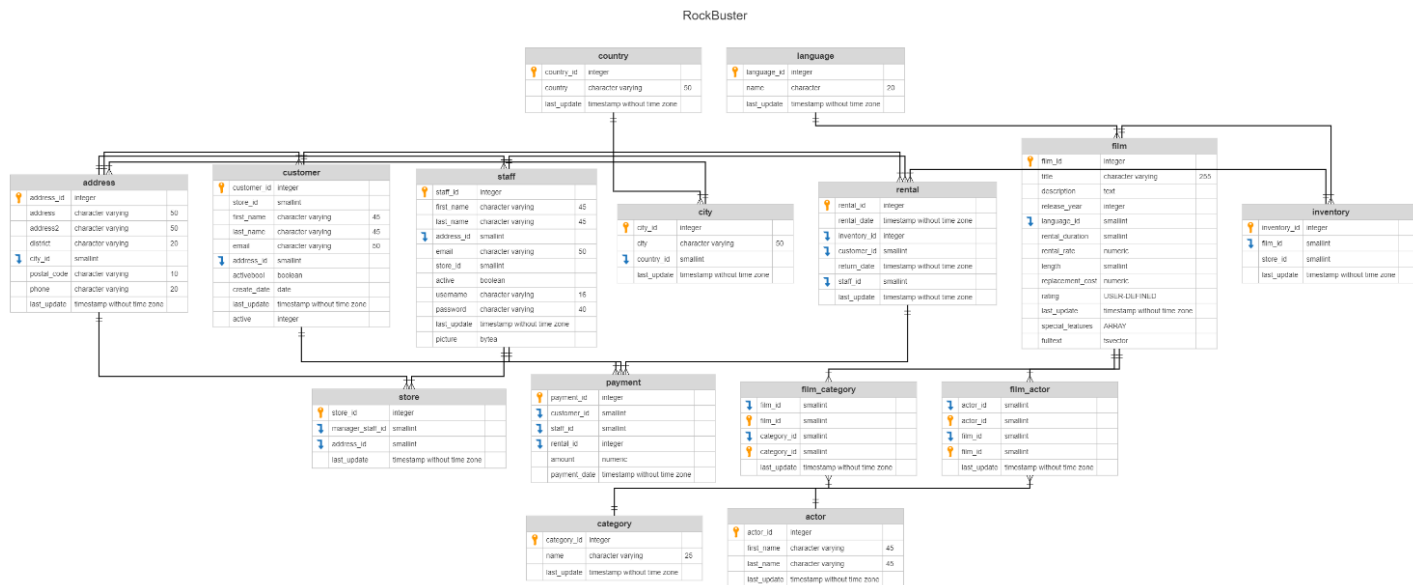
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1. Rockbuster

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service to stay competitive. The Rockbuster database contains information about Rockbuster's film inventory, customers, and payments, among other things.



2. Entity Relationship Diagram





3. Tables

4. Fact Tables

4.1. Rental:

	Column Name	Data Type	Description
	rental_id	int (Primary Key)	Unique ID for the rental
	rental_date	timestamp	Date the rental occurred
	inventory_id	int (Foreign Key)	Inventory record for the rented item

FK	customer_id	int (Foreign Key)	Customer who rented the item
	return_date	timestamp	Date the item was returned
FK	staff_id	int (Foreign Key)	Staff member involved in the rental
	last_update	timestamp	Date the rental record was last updated

Table		Join	
Links To		inventory	Rental.inventory_id = Inventory.inventory_id
		staff	Rental.staff_id = Staff.staff_id
		customer	Rental.customer_id = Customer.customer_id
Linked From		payment	Rental.rental_id = payment.rental_id

Column		Description	
Unique Keys		rental_id	Primary key for the rental

4.2. Payment:




	Column Name	Data Type	Description
	payment_id	int (Primary Key)	Unique ID for the payment
FK	customer_id	int (Foreign Key)	Customer making the payment
FK	staff_id	int (Foreign Key)	Staff member handling the payment
FK	rental_id	int (Foreign Key)	Rental the payment is associated with
	amount	numeric	Amount paid for the rental
	payment_date	timestamp	Date the payment occurred

	Table	Join
Links To 	rental	Payment.rental_id = Rental.rental_id
	staff	Payment.staff_id = Staff.staff_id
	customer	Payment.customer_id = Customer.customer_id
Linked From 		

	Column	Description
Unique Keys 	payment_id	Primary key for the payment table

5. Dimension Tables

5.1. Film:





	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>film_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the film</u>
	<u>title</u>	<u>varchar</u>	<u>Title of the film</u>
	<u>description</u>	<u>text</u>	<u>Summary of the film's plot</u>
	<u>release_year</u>	<u>int</u>	<u>Year the film was released</u>
FK	<u>language_id</u>	<u>int (Foreign Key)</u>	<u>Language of the film</u>
	<u>rental_duration</u>	<u>int</u>	<u>Rental period length for the film</u>
	<u>rental_rate</u>	<u>numeric</u>	<u>Rental price for the film</u>
	<u>length</u>	<u>int</u>	<u>Length of the film in minutes</u>
	<u>replacement_cost</u>	<u>numeric</u>	<u>Cost to replace the film</u>
	<u>rating</u>	<u>varchar</u>	<u>MPAA rating</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the film record was last updated</u>

Table			Join
Linked From		Film_actor	Film.film_id = Film_actor.film_id
		Film_category	Film.film_id = Film_category.film_id
		Inventory	Film.film_id = Inventory.film_id
Links To		Language	Film.language_id = Language.language_id

Column		Description
Unique Keys		film_id
		Primary key for the film table

5.2. Customer:





	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>customer_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the customer</u>
	<u>store_id</u>	<u>int</u>	<u>Customer's local store</u>
	<u>first_name</u>	<u>varchar</u>	<u>Customer's first name</u>
	<u>last_name</u>	<u>varchar</u>	<u>Customer's last name</u>
	<u>email</u>	<u>varchar</u>	<u>Customer's email address</u>
FK	<u>address_id</u>	<u>int (Foreign Key)</u>	<u>Customer's address</u>
	<u>active</u>	<u>int</u>	<u>Whether the customer account is active</u>
	<u>create_date</u>	<u>date</u>	<u>Date the customer account was created</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the customer record was last updated</u>

Table				Join	
Linked From		Rental	Rental.customer_id = Customer.customer_id		
		Payment	Payment.customer_id = Customer.customer_id		
Links To		Address	Address.address_id = Customer.address_id		

Column	Description
Unique Keys	 customer_id Primary key for the film table

5.3. Staff:





	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>staff_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the staff member</u>
	<u>first_name</u>	<u>varchar</u>	<u>Staff member's first name</u>
	<u>last_name</u>	<u>varchar</u>	<u>Staff member's last name</u>
FK	<u>address_id</u>	<u>int (Foreign Key)</u>	<u>Staff member's address</u>
	<u>email</u>	<u>varchar</u>	<u>Staff member's email address</u>
	<u>store_id</u>	<u>int</u>	<u>Store where the staff member works</u>
	<u>active</u>	<u>boolean</u>	<u>Whether the staff account is active</u>
	<u>username</u>	<u>varchar</u>	<u>Staff member's login username</u>
	<u>password</u>	<u>varchar</u>	<u>Hashed password for the staff account</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the staff record was last updated</u>

Table		Join	
Linked From		Rental	Rental.staff_id = Staff.staff_id
		Payment	Payment.staff_id = Staff.staff_id
Links To		Address	Staff.address_id = Address.address_id

Column		Description	
Unique Keys		staff_id	Primary key for the staff table

5.4. Actor:





	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>actor_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the actor</u>
	<u>first_name</u>	<u>varchar</u>	<u>Actor's first name</u>
	<u>last_name</u>	<u>varchar</u>	<u>Actor's last name</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the actor record was last updated</u>

Table		Join	
Linked From		Film_actor	Film_actor.actor_id = Actor.actor_id
Links To			

Column		Description	
Unique Keys		actor_id	Primary key for the Actor table

5.5. Address:




	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>address_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the address</u>
	<u>address</u>	<u>varchar</u>	<u>First line of the address</u>
	<u>address2</u>	<u>varchar</u>	<u>Second line of the address</u>
	<u>district</u>	<u>varchar</u>	<u>Neighborhood, district, etc.</u>
FK	<u>city_id</u>	<u>int (Foreign Key)</u>	<u>City the address is located in</u>
	<u>postal_code</u>	<u>varchar</u>	<u>ZIP or postal code</u>
	<u>phone</u>	<u>varchar</u>	<u>Phone number for the address</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the address record was last updated</u>

Table		Join
Linked From		Store
		Address.address_id = Store.address_id
		Film_category
		Film.film_id = Film_category.film_id
		Staff
		Address.address_id = Staff.address_id
Links To		Customer
		Address.address_id = Customer.address_id

Column	Description
Unique Keys	 address_id
	Primary key for the Address table

5.6. City:





<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
 <u>city_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the city</u>
<u>city</u>	<u>varchar</u>	<u>Name of the city</u>
FK <u>country_id</u>	<u>int (Foreign Key)</u>	<u>Country the city is located in</u>
<u>last_update</u>	<u>timestamp</u>	<u>Date the city record was last updated</u>

		Table	Join
Linked From		Address	City.city_id = Address.city_id
Links To		Country	City.country_id = Country.country_id

		Column	Description
Unique Keys		city_id	Primary key for the city table

5.7. Country:




	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>country id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the country</u>
	<u>country</u>	<u>varchar</u>	<u>Name of the country</u>
	<u>last update</u>	<u>timestamp</u>	<u>Date the country record was last updated</u>

		Table	Join
Linked From		City	Country.country_id = City.country_id
Links To			

Column		Description
Unique Keys		country_id
		Primary key for the country table

5.8. Category:





<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
 <u>category_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the category</u>
<u>name</u>	<u>varchar</u>	<u>Name of the category</u>
<u>last_update</u>	<u>timestamp</u>	<u>Date the category record was last updated</u>

Table		Join
Linked From		Film_Category
Links To		Category.category_id = Film_category.category_id
		Column
		Description
Unique Keys		category_id
		Primary key for the Category table

5.9. Language:





<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
 <u>language_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the language</u>
<u>name</u>	<u>char</u>	<u>Name of the language</u>
<u>last_update</u>	<u>timestamp</u>	<u>Date the language record was last updated</u>

Table		Join
Linked From		Film
Links To		

Language.language_id = Film.language_id

Column		Description
Unique Keys		language_id
		Primary key for the language table

5.10. Inventory:




	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>inventory_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the inventory item</u>
FK	<u>film_id</u>	<u>int (Foreign Key)</u>	<u>Film associated with this inventory item</u>
FK	<u>store_id</u>	<u>int (Foreign Key)</u>	<u>Store inventory item is located at</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the inventory record was last updated</u>

Table		Join	
Linked From		Rental	Inventory.inventory_id = Rental.inventory_id
Links To		Film	Film_actor.film_id = Film.film_id
		Store	Inventory.store_id = Store.store_id

		Column	Description
Unique Keys		inventory_id	Primary key for the inventory table

5.11. Film_actor:

	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
FK	<u>actor_id</u>	<u>int (Foreign Key)</u>	<u>Actor associated with the film</u>
FK	<u>film_id</u>	<u>int (Foreign Key)</u>	<u>Film the actor is associated with</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the film actor record was last updated</u>

Table		Join	
Linked From	←		
Links To	→	Actor	Film_actor.actor_id = Actor.actor_id
		Film	Film_actor.film_id = Film.film_id

Column		Description	
Unique Keys			

5.12. Film_category:

	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
FK	<u>film_id</u>	<u>int (Foreign Key)</u>	<u>Film associated with the category</u>
FK	<u>category_id</u>	<u>int (Foreign Key)</u>	<u>Category associated with the film</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the film category record was last updated</u>

Table		Join
Linked From	←	
Links To	→	Category Film_category.category_id = Category.category_id
		Film Film_category.film_id = Film.film_id

Column	Description
Unique Keys	

5.13. Store:








	<u>Column Name</u>	<u>Data Type</u>	<u>Description</u>
	<u>store_id</u>	<u>int (Primary Key)</u>	<u>Unique ID for the store</u>
FK	<u>manager_staff_id</u>	<u>int (Foreign Key)</u>	<u>Staff member who is the store manager</u>
FK	<u>address_id</u>	<u>int (Foreign Key)</u>	<u>Address of the store</u>
	<u>last_update</u>	<u>timestamp</u>	<u>Date the store record was last updated</u>

Table		Join	
Linked From		Inventory	Inventory.store_id = Store.store_id
Links To		Staff	Store.manager_staff_id = Staff.staff_id
		Address	Store.address_id = Address.address_id

		Column	Description
Unique Keys		store_id	Primary key for the store table

6. Legends

	Primary Key
FK	Foreign Key
	Links to
	Linked from