

ROCKBUSTER STEALTH LLC

Data Dictionary

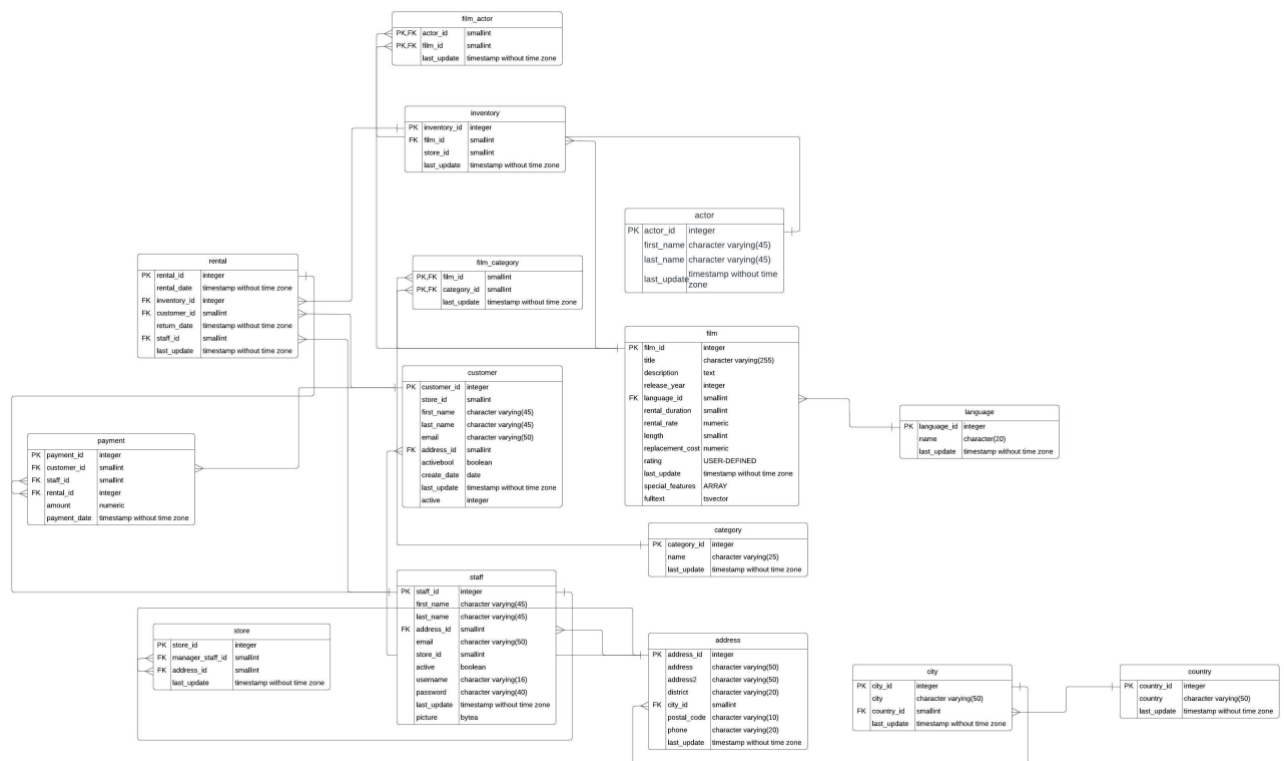
Daniella Richt

3.10





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Entity Relationship Diagram







Legend

	Primary key
	Foreign Key
	Links to
	Links from





Fact tables

Rental





	Column	Data Type	Description
	Rental_id	Serial /integer	Surrogate Primary Key / unique number
	Rental_date	Date (Timestamp)	Recorded date of each rental
	Inventory_id	Integer	Foreign key linking Inventory table / unique number

	Customer_id	Integer (SmallInt)	Foreign key linking Customer table / unique number
	Return_date	Date (Timestamp)	Recorded date of each return
	Staff_id	Integer (SmallInt)	Foreign key linking Staff table / unique number
	Last_update	Date (Timestamp)	Date/Time of last update




Links to/from:

	Table	Join
	Inventory	rental.inventory_id=rental.rental_id
	Customer	rental.customer_id=customer.customer_id
	Staff	rental.staff_id=staff.staff_id
	Payment	payment.rental_id=rental.rental_id

Payment




	Column	Data Type	Description
	Payment_id	Serial / integer	Surrogate Primary Key / unique number
	Customer_id	Integer (SmallInt)	Foreign key linking Customer table / unique number
	Staff_id	Integer (SmallInt)	Foreign key linking Staff table / unique number
	Rental_id	Integer	Foreign Key linking to Rental table / Unique number
	Amount	Numeric (2 dp)	Recorded amount of each rental transaction
	Payment date	Date (Timestamp)	Recorded date of payment

Links to/from:



	Table	Join
	Rental	payment.rental_id=rental.rental_id
	Customer	payment.customer_id=customer.customer_id
	Staff	payment.staff_id=staff.staff_id

Dimension tables




Store

	Column	Data Type	Description
	Store_id	Serial/ Integer	Primary Key / unique number
	Manager_Staff_id	Integer (SmallInt)	Foreign key linking Staff table / unique number
	Address_id	Integer (SmallInt)	Foreign Key linking to Address table / Unique number
	Last_update	Date (timestamp)	Date/Time of last update



Links to/from:

	Table	Join
	Address	store.address_id=address.address_id
	Staff	store.staff_id=staff.staff_id



Inventory


	Column	Data Type	Description
	Inventory_id	Serial / Integer	Primary key to identify actor / Unique number
	Film_id	Integer (SmallInt)	Foreign Key linking to Film table / Unique number
	Store_id	Integer (SmallInt)	Foreign Key linking to Store table / Unique number
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:





	Table	Join
	Film	inventory.film_id=film.film_id
	Rental	rental.inventory_id=inventory.inventory_id

Staff




	Column	Data Type	Description
	Staff_id	Serial / Integer	Primary Key / unique number
	Store_id	Integer (SmallInt)	Foreign key linking Store table / unique number

	First_name	VARCHAR 45)	First name of staff member
	Last_name	VARCHAR (45)	Last name of staff member
	Email	VARCHAR (50)	Email address of staff member
	Address_id	Integer (SmallInt)	Foreign Key linking to Address table / Unique number
	Active	Boolean	Whether staff account is active
	User_name	VARCHAR (16)	Username of staff member
	Password	VARCHAR (40)	Password of staff member
	Last_update	Date (timestamp)	Date/Time of last update
	Picture	BYTEA	Photo of staff member




Links to/from:

	Table	Join
	Address	staff.address_id=address.address_id
	Payment	payment.staff_id=Staff.staff_id
	Rental	rental.staff_id=Staff.staff_id
	Store	store.manager_staff_id=Staff.staff_id



Customer

	Column	Data Type	Description
	Customer_id	Serial/Integer	Primary Key / unique number
	Store_id	Integer (SmallInt)	Foreign key linking Store table / unique number
	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	Integer (SmallInt)	Foreign Key linking to Address table / Unique number
	Activebool	Boolean	Active true/false
	Create_date	Date	Date of creation
	Active	Integer	If the customer account is active
	Last_update	Date (timestamp)	Date/Time of last update





Links to/from:

	Table	Join
	Address	customer.address_id=address.address_id
	Rental	rental.customer_id=customer.customer_id
	Payment	payment.customer_id=customer.customer_id



Address

	Column	Data Type	Description
	Address_id	Serial/Integer	Primary Key / unique number
	Address	VARCHAR (50)	Address information
	Address_2	VARCHAR (50)	Address information
	Distric	VARCHAR (20)	Address information
	City_id	Integer (SmallInt)	Foreign Key linking to City table / Unique number
	Postal_code	VARCHAR (10)	Postal code with max 10 characters
	Phone	VARCHAR (20)	Phone Number information
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:

	Table	Join
	City	address.city_id=City.city_id
	Customer	customer.address_id=Address.address_id
	Staff	staff.address_id=Address.address_id
	Store	store.address_id=Address.address_id


City

	Column	Data Type	Description
	City_id	Serial/ Integer	Primary Key / unique number
	City	VARCHAR (50)	City Information
	Country_id	Integer (SmallInt)	Foreign Key linking to Country table / Unique number
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:

	Table	Join
	Country	city.country_id=Country.country_id
	Address	address.city_id=City.city_id



County

	Column	Data Type	Description
	Country_id	Serial/ Integer	Primary Key / unique number
	Country	VARCHAR (50)	Country Information
	Last_update	Date (timestamp)	Date/Time of last update



Links to/from:

	Table	Join
	City	city.country_id=Country.country_id


Film_Actor

	Column	Data Type	Description
	Actor_id	Integer (SmallInt)	Composite Primary key to identify actor & foreign key linking the Actor table / Unique number
	Film_id	Integer (SmallInt)	Composite Primary key to identify film & foreign key linking the Filmtable / Unique number
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:


	Table	Join
	Actor	film_actor.actor_id=actor.actor_id
	film	film_actor.film_id=film.film_id

Actor



	Column	Data Type	Description
	Actor_id	Serial / Integer	Primary key to identify actor / Unique number
	First_name	VARCHAR (45)	First name of actor
	Last_name	VARCHAR (45)	Last name of actor

	Last_update	Date (timestamp)	Date/Time of last update
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Links to/from:

	Table	Join
	Film_actor	film_actor.actor_id=actor.actor_id


Film

	Column	Data Type	Description
	Film_id	Serial / Integer	Primary Key / unique number
	Title	VARCHAR (225)	Title of film
	Description	Text	Description of film
	Release_Year	Year	Year of release
	Language_id	Integer (SmallInt)	Foreign key linking Language table / unique number
	Rental_duration	Integer (SmallInt)	Duration of rental
	Rental_rate	Numeric (2 dp)	Rate of the rentals
	Length	Integer (SmallInt)	Length of the film
	Replacement_cost	Numeric (2 dp)	Cost to replace
	Rating	Mpaa	Ages allowed to watch the film
	Last_update	Date (timestamp)	Date/Time of last update
	Special_features	Text (array)	Special features of the film
	Fulltext	TSVECTOR	Text of the film

Links to/from:

	Table	Join
	Language	film.language_id=language.language_id
	Inventory	inventory.film_id=film.film_id
	Film_actor	film_actor.film_id=film.film_id
	Film_category	film_category.film_id=film.film_id

Language





	Column	Data Type	Description
	Language_id	Serial/ Integer	Primary Key / unique number
	Name	VARCHAR (20)	Name of Language

	Last_update	Date (timestamp)	Date/Time of last update
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Links to/from:

	Table	Join
←	film	film.language_id=language.language_id


Film_Category

	Column	Data Type	Description
 	Film_id	Integer (SmallInt)	Composite Primary key to identify film & foreign key linking the Film table / Unique number
 	Category_id	Integer (SmallInt)	Composite Primary key to identify category & foreign key linking the Category table / Unique number
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:

	Table	Join
→	Film	film_category.film_id=film.film_id
→	Category	film_category.category_id=category.category_id

Category

	Column	Data Type	Description
	Category_id	Serial/ Integer	Primary Key / unique number
	Name	VARCHAR (20)	Name of Category
	Last_update	Date (timestamp)	Date/Time of last update

Links to/from:

	Table	Join
←	Film_category	film_category.category_id=category.category_id