Rockbuster Stealth

Data Dictionary

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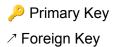
1. Rockbuster Stealth

The Rockbuster database contains information about inventory, customers, transactions, and employees.

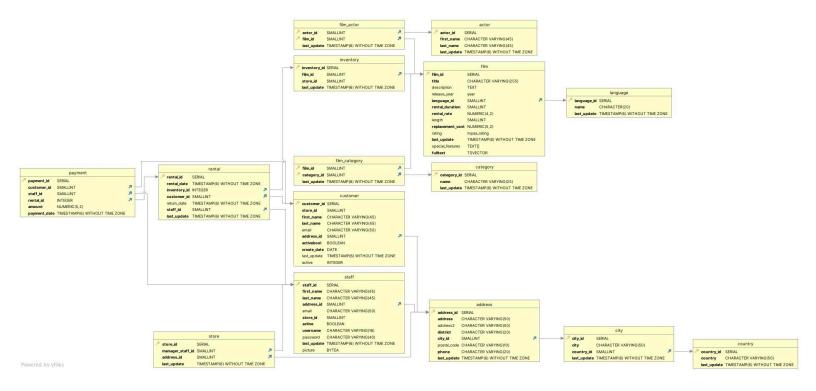
2 Fact Tables

14 Dimension Tables

2. Legend



3. Entity Relationship Diagram



4. Tables

4.1. Fact Tables

4.1.1. <u>Table: Payment</u>

COLU	COLUMNS								
	Name	Data Type	Descriptions						
P	payment_id	SERIAL	Primary key for payment record						
7	customer_id	SMALLINT	Unique customer ID number						
7	staff_id	SMALLINT	Unique staff ID number						
1	rental_id	INTEGER	Unique rental ID number						
	amount	NUMERIC(5,2)	Price of payment						
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of payment						
LINKS	то								
	Table Name	Join							
custon	ner	payment.customer_id = customer.customer_id							
staff		payment.staff_id = staff.staff_id							
rental		payment.rental_id = rental.rental_id							
UNIQU	JE KEYS								
	Columns	Name/Description							
payme	ent_id	payment_pkey Primary key constraint							
custor	mer_id	Payment_customer_id_fkey Foreign key constraint							
rental_	_id	Payment_rental_id_fkey Foreign key constraint							
staff_i	d	Payment_staff_id_fkey Foreign key constraint							

Payment Table Snapshot

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17503	341	2	1520	7.99	2007-02-15 22:25:46.996577
2	17504	341	1	1778	1.99	2007-02-16 17:23:14.996577
3	17505	341	1	1849	7.99	2007-02-16 22:41:45.996577
4	17506	341	2	2829	2.99	2007-02-19 19:39:56.996577
5	17507	341	2	3130	7.99	2007-02-20 17:31:48.996577

4.1.2. <u>Table: Rental</u>

COLU	COLUMNS								
	Name	Data Type	Descriptions						
P	rental_id	SERIAL	Primary key for payment record						
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of rental						
7	inventory_id	INTEGER	Unique inventory ID number						
1	customer_id	SMALLINT	Unique customer ID number						
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of return						
1	staff_id	SMALLINT	Unique staff ID number						
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last rental table update						
LINKS	то								
	Table Name	Join							
invent	ory	rental.inventory_id = inventory.inventory_id							
custon	mer	rental.customer_id = customer.customer_id							
staff		rental.staff_id = staff.staff_id							
LINKS	FROM								
	Table Name	Join							

payment	rental.rental_id = payment.rental_id
UNIQUE KEYS	
Columns	Name/Description
rental_id	rental_pkey Primary key constraint
customer_id	rental_customer_id_fkey Foreign key constraint
inventory_id	inventory_rental_id_fkey Foreign key constraint
staff_id	Payment_staff_id_fkey Foreign key constraint

Rental Table Snapshot

	rental_id [PK] integer	rental_date timestamp without time zone	inventory_id integer	customer_id smallint	return_date timestamp without time zone	staff_id smallint	last_update timestamp without time zone
1	2	2005-05-24 22:54:33	1525	459	2005-05-28 19:40:33	1	2006-02-16 02:30:53
2	3	2005-05-24 23:03:39	1711	408	2005-06-01 22:12:39	1	2006-02-16 02:30:53
3	4	2005-05-24 23:04:41	2452	333	2005-06-03 01:43:41	2	2006-02-16 02:30:53
4	5	2005-05-24 23:05:21	2079	222	2005-06-02 04:33:21	1	2006-02-16 02:30:53
5	6	2005-05-24 23:08:07	2792	549	2005-05-27 01:32:07	1	2006-02-16 02:30:53

4.2. Dimensions Tables

4.2.1. <u>Table: Inventory</u>

COLU	COLUMNS									
	Name	Data Type	Descriptions							
P	inventory_id	SERIAL	Primary key for inventory record							
7	film_id	SMALLINT	Unique film ID number							
	store_id	SMALLINT	Unique store ID number							
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last rental table update							
LINKS	LINKS TO									
	Table Name	Join								

film	inventory.film_id = film.film_id
LINKS FROM	
Table Name	Join
rental	rental.inventory_id = inventory.inventory_id
UNIQUE KEYS	
Columns	Name/Description
inventory_id	inventory_rental_id_fkey Foreign key constraint
film_id	inventory_film_id_fkey Foreign key constraint

Inventory Table Snapshot

	inventory_id [PK] integer	film_id smallint	store_id smallint	last_update timestamp without time zone
1	1	1	1	2006-02-15 10:09:17
2	2	1	1	2006-02-15 10:09:17
3	3	1	1	2006-02-15 10:09:17
4	4	1	1	2006-02-15 10:09:17
5	5	1	2	2006-02-15 10:09:17

4.2.2. <u>Table: Film</u>

COLU	MNS				
	Name	Data Type	Descriptions		
P	film_id	SERIAL	Primary key for film record		
	title	CHARACTER VARYING(255)	Film title		
	description TEXT		Film		
	release_year	year	Film release year		
1	language_id	SMALLINT	Unique language ID number		

	rental_duration	SMALLINT	Film rental duration in days			
	rental_rate	NUMERIC(4,2)	Film rental cost in USD			
	length	SMALLINT	Film length in minutes			
	replacement_cost	NUMERIC(5,2)	Film replacement cost in USD			
	rating	mpaa_rating	Film MPAA rating			
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last film table update			
	special_features	TEXT[]	Film special features			
fulltext		TSVECTOR	Lexemes based on the film content supporting full text search			
LINKS	то					
	Table Name	Join				
langua	age	film.language_id = language.language_id				
LINKS	FROM					
	Table Name	Join				
film_a	ctor	rental.inventory_id = inventory.inventory_id				
invent	ory	inventory.film_id = film.film_id				
film_ca	ategory	film_category.film_id = film.film_id				
UNIQU	JE KEYS					
	Columns	Name/Description				
film_i	d	film_pkey Primary key constraint				
langua	age_id	language_film_id_fkey Foreign key constraint				

Film Table Snapshot

	film_id [PK] integer	title character var		release_year integer	language_id smallint '	rental_duration	rental_rate numeric (4,2)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating	last_update timestamp wi		fulltext tsvector
1	133	Chamber	A Fateful	2006	1	7	4.99	117	14.99	NC-17	2013-05	{Trailers}	'chamber'
2	384	Grosse W	A Epic Dr	2006	1	5	4.99	49	19.99	R	2013-05	{"Behind t	'australia':
3	8	Airport P	A Epic Tal	2006	1	6	4.99	54	15.99	R	2013-05	{Trailers}	'airport':1
4	98	Bright En	A Fateful	2006	1	4	4.99	73	12.99	PG-13	2013-05	{Trailers}	'boat':20 '
5	1	Academy	A Epic Dr	2006	1	6	0.99	86	20.99	PG	2013-05	{"Deleted	'academi':

4.2.3. <u>Table: Language</u>

COLU	COLUMNS			
	Name	Data Type	Descriptions	
	language_id	SERIAL	Primary key for language record	
	name	CHARACTER(20)	Language name	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last language table update	
LINKS	FROM			
	Table Name	Join		
film		film.language_id =	language.language_id	
UNIQU	JE KEYS			
	Columns	Name/Description		
language_id		Language_pkey Primary key constraint		

Language Table Snapshot

	language_id [PK] integer	name character	•	last_update timestamp without time zone
1	1	English		2006-02-15 10:02:19
2	2	Italian		2006-02-15 10:02:19
3	3	Japanese		2006-02-15 10:02:19
4	4	Mandarin		2006-02-15 10:02:19
5	5	French		2006-02-15 10:02:19

4.2.4. <u>Table: Film Category</u>

COLUMNS			
	Name	Data Type	Descriptions
<i>p</i>	film_id	SMALLINT	Composite key for film_category record

7	category_id	SMALLINT	Composite key for film_category record	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last rental table update	
LINKS	S ТО			
	Table Name	Join		
film		film_category.film_id = film.film_id		
catego	ory	film_category.category_id = category.category_id		
UNIQU	JE KEYS			
	Columns	Name/Description		
Film_id & category_id		Film_category_pkey Primary key constraint		
film_id		Film_category_film_id_fkey Foreign key constraint		
catego	Film_category_id_fkey Foreign key constraint		ә у	

Film Category Table Snapshot

	film_id [PK] smallint	category_id [PK] smallint	last_update timestamp without time zone
1	1	6	2006-02-15 10:07:09
2	2	11	2006-02-15 10:07:09
3	3	6	2006-02-15 10:07:09
4	4	11	2006-02-15 10:07:09
5	6	9	2006-02-15 10:07:09

4.2.5. <u>Table: Category</u>

COLUMNS			
	Name	Data Type	Descriptions
P	category_id	SERIAL	Primary key for category record
	name	CHARACTER VARYING(25)	Name of category

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last category table update		
LINKS	LINKS FROM				
Table Name		Join			
film_a	ctor	film_actor.actor_id = actor.actor_id			
UNIQ	UNIQUE KEYS				
	Columns	Name/Description			
categ	ory_id	category_pkey Primary key constraint			

Category Table Snapshot

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone
1	1	Action	2006-02-15 09:46:27
2	2	Animation	2006-02-15 09:46:27
3	3	Children	2006-02-15 09:46:27
4	4	Classics	2006-02-15 09:46:27
5	5	Comedy	2006-02-15 09:46:27

4.2.6. <u>Table: Film Actor</u>

COLU	COLUMNS			
	Name	Data Type	Descriptions	
<i>p</i>	actor_id	SMALLINT	Composite key for film_actor record	
<i>P</i>	film_id	SMALLINT	Composite key for film_actor record	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last film_actor table update	
LINKS	LINKS TO			
	Table Name	Join		
film		film_actor.filn	n_id = film.film_id	

actor	film_actor.actor_id = actor.actor_id	
UNIQUE KEYS		
Columns	Name/Description	
Film_id & actor_id	Film_actor_pkey Primary key constraint	
actor_id	Film_actor_actor_id_fkey Foreign key constraint	
film_id	film_actor_film_id_fkey Foreign key constraint	

Film Actor Table Snapshot

	actor_id [PK] smallint	film_id [PK] smallint	last_update timestamp without time zone
1	1	1	2006-02-15 10:05:03
2	1	23	2006-02-15 10:05:03
3	1	25	2006-02-15 10:05:03
4	1	106	2006-02-15 10:05:03
5	1	140	2006-02-15 10:05:03

4.2.7. Table: Actor

COLU	COLUMNS			
	Name	Data Type	Descriptions	
P	actor_id	SERIAL	Primary key for actor record	
	first_name	CHARACTER VARYING(45)	Actor first name	
	last_name	CHARACTER VARYING(45)	Actor last name	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last actor table update	
LINKS	LINKS FROM			
Table Name		Join		
film_actor		film_actor.actor_id = actor.actor_id		

UNIQUE KEYS	UNIQUE KEYS		
Columns	Name/Description		
actor_id	Actor_pkey Primary key constraint		

Actor Table Snapshot

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	1	Penelope	Guiness	2013-05-26 14:47:57.62
2	2	Nick	Wahlberg	2013-05-26 14:47:57.62
3	3	Ed	Chase	2013-05-26 14:47:57.62
4	4	Jennifer	Davis	2013-05-26 14:47:57.62
5	5	Johnny	Lollobrigida	2013-05-26 14:47:57.62

4.2.8. <u>Table: Customer</u>

COLU	MNS		
	Name	Data Type	Descriptions
	customer_id	SERIAL	Primary key for customer record
	store_id	SMALLINT	Unique store ID number
	first_name	CHARACTER VARYING(45)	Customer first name
	last_name	CHARACTER VARYING(45)	Customer last name
	email	CHARACTER VARYING(50)	Customer email
7	address_id	SMALLINT	Unique address ID number
	activebool	BOOLEAN	True or false active customer
	create_date	DATE	Date of customer account creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last customer table update
	active	INTEGER	1 or 0 indicating active customer
LINKS	то		

Table Name	Join		
address	customer.address_id = address.address_id		
LINKS FROM			
Table Name	Join		
rental	rental.customer_id = customer.customer_id		
payment	payment.customer_id = customer.customer_id		
UNIQUE KEYS			
Columns	Name/Description		
customer_id	customer_pkey Primary key constraint		
address_id	customer_address_id_fkey Foreign key constraint		

Customer Table Snapshot

	customer_id [PK] integer	store_id smallint	first_name character varying (45)	last_name character varying (45)	email character varying (50)	address_id smallint	activebool boolean	create_date /	last_update timestamp without time zone	active integer	,
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14	2013-05-26 14:49:45.738		1
2	1	1	Mary	Smith	mary.smith@sakilacustomer.org	5	true	2006-02-14	2013-05-26 14:49:45.738		1
3	2	1	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true	2006-02-14	2013-05-26 14:49:45.738		1
4	3	1	Linda	Williams	linda.williams@sakilacustomer.org	7	true	2006-02-14	2013-05-26 14:49:45.738		1
5	4	2	Barbara	Jones	barbara.jones@sakilacustomer.org	8	true	2006-02-14	2013-05-26 14:49:45.738		1

4.2.9. <u>Table: Address</u>

COLU	COLUMNS						
	Name	Data Type	Descriptions				
P	address_id	SERIAL	Primary key for address record				
	address	CHARACTER VARYING(50)	Street address				
	address2	CHARACTER VARYING(50)	Street address 2nd line				
	district	CHARACTER VARYING(20)	District of address				
7	city_id	SMALLINT	Unique city ID number				
	postal_code	CHARACTER VARYING(10)	Address postal code				

	phone	CHARACTER VARYING(20)	Phone number	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last address table update	
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last customer table update	
LINKS	то			
	Table Name	Join		
city		address.city	_id = city.city_id	
LINKS FROM				
Table Name		Join		
custon	ner	customer.address_id = address.address_id		
staff		staff.address_id = address.address_id		
store		store.address_id = address.address_id		
UNIQU	JE KEYS			
Columns		Name/Description		
addre	ss_id	address_pkey Primary key constraint		
city_i	d	fk_address_city Foreign key constraint		

Address Table Snapshot

	address_id [PK] integer	address character varying (50)	address2 character varying (50)	district character varying (20)	city_id smallint	postal_code character varying (10)	phone character varying (20)	last_update timestamp without time zone
1	1	47 MySakila Drive	[null]	Alberta	300			2006-02-15 09:45:30
2	2	28 MySQL Boulevard	[null]	QLD	576			2006-02-15 09:45:30
3	3	23 Workhaven Lane	[null]	Alberta	300		14033335568	2006-02-15 09:45:30
4	4	1411 Lillydale Drive	[null]	QLD	576		6172235589	2006-02-15 09:45:30
5	5	1913 Hanoi Way		Nagasaki	463	35200	28303384290	2006-02-15 09:45:30

4.2.10. <u>Table: City</u>

COLUMNS					
	Name	Data Type	Descriptions		
P	city_id	SERIAL	Primary key for city record		

	city	CHARACTER VARYING(50)	City name		
7	country_id	SMALLINT	Unique country ID number		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last city table update		
LINKS	то				
Table Name		Join			
country		city.country_id = country.country_id			
LINKS	LINKS FROM				
	Table Name	Join			
addres	SS	address.city_id = city.city_id			
UNIQU	JE KEYS				
	Columns	Name/Description			
city_i	d	city_pkey Foreign key constraint			
count	ry_id	fk_city Foreign key constraint			

Address Table Snapshot

	city_id [PK] integer	city character varying (50)	country_id smallint	last_update timestamp without time zone
1	1	A Corua (La Corua)	87	2006-02-15 09:45:25
2	2	Abha	82	2006-02-15 09:45:25
3	3	Abu Dhabi	101	2006-02-15 09:45:25
4	4	Acua	60	2006-02-15 09:45:25
5	5	Adana	97	2006-02-15 09:45:25

4.2.11. <u>Table: Country</u>

COLU	COLUMNS				
	Name	Data Type	Descriptions		

P	country_id	SERIAL	Primary key for country record				
	country	CHARACTER VARYING(50)	Country name				
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last country table update				
LINKS	LINKS FROM						
Table Name		Join					
city		city.country_id = country.country_id					
UNIQ	UNIQUE KEYS						
Columns							
	Columns	Name/Description					

Country Table Snapshot

	country_id [PK] integer	country character varying (50)	last_update timestamp without time zone
1	1	Afghanistan	2006-02-15 09:44:00
2	2	Algeria	2006-02-15 09:44:00
3	3	American Samoa	2006-02-15 09:44:00
4	4	Angola	2006-02-15 09:44:00
5	5	Anguilla	2006-02-15 09:44:00

4.2.12. Table: Staff

COLU	COLUMNS						
	Name Data Type		Descriptions				
P	staff_id	SERIAL	Primary key for staff record				
	first_name	CHARACTER VARYING(45)	Staff first name				
	last_name	CHARACTER VARYING(45)	Staff last name				
1	address_id	SMALLINT	Unique address ID number				

	store_id	SMALLINT	Unique store ID number		
active		BOOLEAN	True or false active staff		
username		CHARACTER VARYING(16)	Staff username		
	password	CHARACTER VARYING(40)	Staff password		
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last staff record update		
	picture	BYTEA	Binary string of staff image		
LINKS	то				
	Table Name	Join			
addres	SS	staff.address_id = address.address_id			
LINKS FROM					
Table Name		Join			
payme	ent	payment.staff_id = staff.staff_id			
rental		rental.staff_id = staff.staff_id			
store		store.manager_staff_id = staff.staff_id			
UNIQU	JE KEYS				
Columns		Name/Description			
staff_i	id	staff_pkey Primary key constraint			
address_id		staff_address_id_fkey Foreign key constraint			

Staff Table Snapshot

	staff_id [PK] integer	first_name character var	last_name character var	address_id smallint	email character vary	store_id smallint	active boolean	username character var	password character varying (40)	last_update timestamp without tir	picture bytea
1	1	Mike	Hillyer	3	Mike.Hilly	1	true	Mike	8cb2237d0679ca88db6464eac	2006-05-16 16:13	[binary dat
2	2	Jon	Stephens	4	Jon.Steph	2	true	Jon	8cb2237d0679ca88db6464eac	2006-05-16 16:13	[null]

4.2.13. <u>Table: Store</u>

COLUMNS

	Name	Data Type	Descriptions		
P	store_id	SERIAL	Primary key for store record		
	manager_staff_id	SMALLINT	Unique manager ID number		
1	address_id	SMALLINT	Unique address ID number		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last film_actor table update		
LINKS	5 ТО				
Table Name		Join			
address		store.address_id = address.address_id			
staff		store.manager_staff_id = staff.staff_id			
UNIQUE KEYS					
	Columns	Name/Description			
store_id		store_pkey Primary key constraint			
addre	ss_id	store_address_id_fkey Foreign key constraint			
manager_staff_id		store_manager_staff_id_fkey Foreign key constraint			

Store Table Snapshot

	store_id [PK] integer	manager_staff_id smallint	address_id smallint	last_update timestamp without time zone
1	1	1	1	2006-02-15 09:57:12
2	2	2	2	2006-02-15 09:57:12