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ROCKBUSTER STEALTH

DATA DICTIONARY

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TASK 3.10

Contents

Data Map – Entity Relationship Diagram

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2. Fact Tables

2.1 Table: Payment

Payment information of customers, staff that handle the transactions, and the transaction details

Payment		
Column	**Data Type**	**Explanation**
Payment_id	Serial	Key variable that determines which paymednt it is
Customer_id	Small int	Identification of which customer it is by a number not name
Staff_id	Small int	Staff member that worked the case
Rental_id	Integer	The id number of the rental
Amount	Numeric(5,2)	The cost of the total rental
Payment_date	Timestamp without timezone	The day and time of the payment

Links to	
Table	**Join**
Staff	Payment.staff_id = Staff.staff_id
Rental	Payment.rental_id = Rental.rental_id
Customer	Payment.customer_id = Customer.customer_id

Linked From	
Table	**Join**

No links from other tables	

Unique Keys	
Columns	**Key type**
Payment_id	Primary key
Customer_id	Foreign key
Staff_id	Foreign key
Rental_id	Foreign key

2.2 Table: Store

Store		
Column	**Data type**	**Explanation**
Store_id	Serial	Serial number of the given store – key variable
Manager_staff_id	Small int	Number of the manager who runs the store
Address_id	Small int	Integer id of address of the given store
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Staff	Store.store_id = Staff.store_id
Address	Store.address_id = Address.address_id

Linked From	
Table	**Join**
No links from other tables	

Unique Keys	
Columns	**Key type**
Store_id	Primary key
Address_id	Foreign key

2.3 Table: Film Category

Film Category		
Column	**Data type**	**Explanation**
Film_id	Small int	Integer of which film it is - key composite variable of table

Category_id	Small int	Integer of which category it is – key composite variable
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Category	Film_category.category_id = Category.category_id
Film	Film_category.film_id = film.film_id

Linked From	
Table	**Join**
No links from other tables	

Unique Keys	
Columns	**Key type**
Film_id	Primary key
Category_id	Primary key

2.4 Table: Film Actor

Film Actor		
Column	**Data type**	**Explanation**
Actor_id	Small int	Id of which actor it is – key composite variable
Film_id	Small int	Id of which film it is – key composite variable
Last_update	Timestamp without timezone	Last timestamp of any updates

Links to	
Table	**Join**
Film	Film_actor.film_id = film.film_id
Actor	Film_actor.actor_id = actor.actor_id

Linked From	
Table	**Join**
No links from other tables	

Unique Keys	
Columns	**Key type**
Actor_id	Primary key
Film_id	Primary key

3. Dimension tables

3.1 Table: Rental

Rental information of film rentals

Rental		
Column	**Data type**	**Explanation**
Rental_id	Serial	Key variable to uniquely identify each rental in the table
Rental_date	Timestamp without time zone	The time and date of the rental
Inventory_id	Integer	The number that represents what inventory the rental is
Customer_id	Small int	Referencing the customer
Return_date	Timestamp without time zone	The time and date of when the return took place
Staff_id	Small int	Staff member who handled the transaction
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Inventory	Rental.inventory_id = inventory.inventory_id
Staff	Rental.staff_id = Staff.staff_id
Customer	Rental.customer_id = Customer.customer_id

Linked From	
Table	**Join**
Payment	Payment.rental_id = rental.rental_id

Unique Keys	
Columns	**Key type**

Rental_id	Primary key
Customer_id	Foreign key
Staff_id	Foreign key
Inventory_id	Foreign key

3.2 Table: Customer

Customer information

Customer		
Column	**Data type**	**Explanation**
Customer_id	Serial	Key variable to differentiate the table of which customer it is
Store_id	Small Int	Id of which store it came from
First_name	Character	First name of the customer
Last_name	Character	Last name of the customer
Email	Character	Email address of the customer
Address_id	Small int	Integer id of address of the store they purchased from
Activebool	Boolean	Yes/No of whether they are an active customer
Create_Date	Date	Date they created their profile as a customer
Last_update	Timestamp without time zone	Last timestamp of any updates
Active	Integer	Integer to represent activity level

Links to	
Table	**Join**
Address	Customer.address_id = address.address_id

Linked From	
Table	**Join**
Payment	Payment.rental_id = rental.rental_id
Rental	Rental.customer_id = customer.customer_id

Unique Keys	
Columns	**Key type**
Customer_id	Primary key
Store_id	Foreign key
Address_id	Foreign key

3.3 Table: Staff

Staff information

Staff		
Column	**Data type**	**Explanation**
Staff_id	Serial	Key variable to differentiate the table of which staff member it is
First_name	Character	First name of the staff member
Last_name	Character	Last name of the staff
Address_id	Small int	Id of store address they work for
Email	Character	Email address of the staff member
Store_id	Small Int	Id of which store they work for
Active	Boolean	Yes/No whether they are an active staff member
Username	Character	Username of account
Password	Character	Password of account
Last_update	Timestamp without time zone	Last timestamp of any updates
Picture	Bytea	Picture of who the staff member is for records

Links to	
Table	**Join**
Address	Staff.address_id = address.address_id

Linked From	
Table	**Join**
Store	Store.store_id = staff.store_id
Rental	Rental.staff_id = staff.staff_id
Payment	Payment.staff_id = staff.staff_id

Unique Keys	
Columns	**Key type**
Staff_id	Primary key
Address_id	Foreign key
Store_id	Foreign key

3.4 Table: Address

Address of staff, customers, and stores

Address		
Column	**Data type**	**Explanation**
Address_id	Serial	ID to reference address

Address	Character	The street of the store address
Address2	Character	Any second line of information of the store address
District	Character	District of the store
City_id	Small int	Integer number of the given city
Postal_code	Character	Postal code of address
Phone	Character	Phone number of address
Last_update	Timestamp without timezone	Last timestamp of any updates

Links to	
Table	**Join**
City	Address.city_id = City.city_id

Linked From	
Table	**Join**
Store	Store.address_id = City.address_id
Staff	Staff.address_id = city.address_id
Customer	Customer.address_id = city.address_id

Unique Keys	
Columns	**Key type**
Address_id	Primary key
City_id	Foreign key
Store_id	Foreign key

3.5 Table: City

Address city information

City		
Column	**Data type**	**Explanation**
City_id	Serial	Serial number of city
City	Character	Descriptive character name of the city
Country_id	Smallint	Integer of which country the city is in
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Country	City.country_id = country.country_id

Linked From	
Table	**Join**
Address	Address.city_id = city.city_id

Unique Keys	
Columns	**Key type**
City_id	Primary key
Country_id	Foreign key

3.6 Table: Country

Address country information

Country		
Column	**Data type**	**Explanation**
Country_id	Serial	ID of country – key variable
Country	Character	Descriptive name of the country
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Does not link to any tables	

Linked From	
Table	**Join**
City	City.country_id = country.country_id

Unique Keys	
Columns	**Key type**
Country_id	Primary key

3.7 Table: Inventory

Inventory information of current films and stores

Inventory		
Column	**Data type**	**Explanation**
Inventory_id	Small int	Integer of which inventory it is – key variable
Film_id	Small int	Id of which film it is
Store_id	Small int	ID of which store the inventory is in
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Film	Inventory.film_id = film.film_id

Linked From	
Table	**Join**
Rental	Rental.inventory_id = inventory.inventory_id

Unique Keys	
Columns	**Key type**
Inventory_id	Primary key
Film_id	Foreign key
Store_id	Foreign key

3.8 Table: Film

Film information of each film Rockbuster owns and offers to customers

Film		
Column	**Data type**	**Explanation**
Film_id	Serial	Serial number for key variable of film
Title	Character	Character descriptive title
Description	Text	Short (non-limited) description of what the film is about
Release_year	Year	Year which it was released
Language_id	Small int	Integer representation of what language the film is in
Rental_duration	Small int	Amount of rental time of film
Rental_rate	Numeric	Cost it rents for
Length	Small int	Length of movie
Replacement_cost	Numeric	Cost to replace the movie if damaged, lost, or stolen
Rating	Mpaa_rating	Rating of the movie
Last_update	Timestamp without time zone	Last timestamp of any updates
Special_features	Text	Description of any type of special features
Fulltext	TS Vector	Full text transcript of the film

Links to	
Table	**Join**
Language	Film.language_id = language.language_id

Linked From	
Table	**Join**
Film_category	Film_category.film_id = film.film_id
Inventory	Inventory.film_id = film.film_id
Film_actor	Film_actor.film_id = film.film_id

Unique Keys	
Columns	**Key type**
Film_id	Primary key
Language_id	Foreign key

3.9 Table: Language

Language of films

Language		
Column	**Data type**	**Explanation**
Language_id	Serial	Serial number of ID of the given language of the film.
Name	Character	Name of the language
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Does not link	

Linked From	
Table	**Join**
Film	Film.language_id = language.language_id

Unique Keys	
Columns	**Key type**
Language_id	Primary key
City_id	Foreign key
Store_id	Foreign key

3.10 Table: Category

Category information that describes the film_category table

Category

Column	Data type	Explanation
Category_id	Serial	ID of film category
Name	Character	Name of the category
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Does not link to	

Linked From	
Table	**Join**
Film_category	Film_category.category_id = category.category_id

Unique Keys	
Columns	**Key type**
Category_id	Primary key

3.10 Table: Actor

Information about the actors that describes the film_actor table

Actor		
Column	**Data type**	**Explanation**
Actor_id	Serial	ID of which actor
First_name	Character	First name of the given actor
Last_name	Character	Last name of the given actor
Last_update	Timestamp without time zone	Last timestamp of any updates

Links to	
Table	**Join**
Does not link to	

Linked From	
Table	**Join**
Film_actor	Film_actor.actor_id = actor.actor_id

Unique Keys	
Columns	**Key type**
Actor_id	Primary key