



DECEMBER 1, 2023

DATA DICTIONARY

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ROCKBUSTER STEALTH LLC

Achievement 3 – Exercise 10

Data Immersion

assembled by Lainey Odette

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Entity Relationship Diagram (ERD)





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Database Tables





Legend

Symbol	Meaning
	Primary key
	Foreign key

Fact Tables

Table: Rental

Contents

	Column	Data Type	Description
	Rental_id	SERIAL	Primary key for rental table Unique ID for rental transaction
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rental
	Inventory_id	INTEGER	ID of the item rented Foreign key to the inventory table
	Customer_id	SMALLINT	ID of the customer who rented Foreign key to the customer table
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the rental was returned
	Staff_id	SMALLINT	ID of the staff member who assisted with the rental Foreign key to the staff table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

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Table Links

Table	Key Join
Payment	Rental.rental_id = Payment.rental_id
Inventory	Rental.inventory_id = Inventory.inventory_id
Customer	Rental.customer_id = Customer.customer_id
Staff	Rental.staff_id = Staff.staff_id

Table: Payment

Contents





	Column	Data Type	Description
	Payment_id	SERIAL	Primary key for payment table Unique ID for payment transaction
	Customer_id	SMALLINT	ID of the customer who rented Foreign key to the customer table
	Staff_id	SMALLINT	ID of the staff member who assisted with the payment Foreign key to the staff table
	Rental_id	INTEGER	ID of the rental record Foreign key to the rental table
	Amount	Numeric(5,2)	Dollar amount of the rental
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Rental	Payment.rental_id = Rental.rental_id
Customer	Payment.customer_id = Customer.customer_id

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Staff	Payment.staff_id = Staff.staff_id
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Dimension Tables

Table: Store

Contents




	Columns	Data Type	Description
	Store_id	SERIAL	Primary key for store table Unique ID for store
	Manager_staff_id	SMALLINT	Staff ID of the manager at the store Foreign key to the staff table
	Address_id	SMALLINT	Address ID of the store Foreign key to the address table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Staff	Store.store_id = Staff.store_id
Staff	Store.manager_staff_id = Staff.manager_staff_id
Customer	Store.store_id = Customer.store_id
Inventory	Store.store_id = Inventory.store_id
Address	Store.address_id = Address.address_id

Table: Address

Contents

Column	Data Type	Description
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	Address_id	SERIAL	Primary key for address table Unique ID for address
	Address	CHARACTER VARYING(50)	First line of street address
	Address2	CHARACTER VARYING(50)	Second line of street address
	District	CHARACTER VARYING(20)	District of address
	City_id	SMALLINT	ID of the city for the address Foreign key to the city table
	Postal_code	CHARACTER VARYING(10)	Postal code for the address
	Phone	CHARACTER VARYING(20)	Phone number for the address
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
City	Address.city_id = City.city_id
Staff	Address.address_id = Staff.address_id
Customer	Address.address_id = Customer.address_id

Table: City

Contents

	Column	Data Type	Description
	City_id	SERIAL	Primary key for city table Unique ID for city
	City	CHARACTER VARYING(50)	Name of the city
	Country_id	SMALLINT	Country id where the city is located Foreign key to the country table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

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Table Links

Table	Key Join
Address	City.city_id = Address.city_id
Country	City.country_id = Country.country_id

Table: Country

Contents





	Column	Data Type	Description
	Country_id	SERIAL	Primary key for country table Unique ID for country
	Country	CHARACTER VARYING(50)	Name of the country
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
City	Country.country_id = City.country_id

Table: Inventory

Contents

	Column	Data Type	Description
	Inventory_id	SERIAL	Primary key for inventory table Unique ID for item in inventory
	Film_id	SMALLINT	ID of the film Foreign key to the film table
	Store_id	SMALLINT	ID of the store the film is located in inventory

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			Foreign key to the store table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Rental	Inventory.inventory_id = Rental.inventory_id
Film	Inventory.film_id = Film.film_id
Film_category	Inventory.film_id = Film_category.film_id
Film_actor	Inventory.film_id = Film_actor.film_id
Store	Inventory.store_id = Store.store_id

Table: Staff

Contents

	Column	Data Type	Description
	Staff_id	SERIAL	Primary key for staff table Unique ID for staff member
	First_name	CHARACTER VARYING(45)	First name of the staff member
	Last_name	CHARACTER VARYING(45)	Last name of the staff member
	Address_id	SMALLINT	Address ID of the staff member's address Foreign key to the address table
	Email	CHARACTER VARYING(50)	Email address of the staff member
	Store_id	SMALLINT	Store ID where the staff member works Foreign key to the store table
	Active	BOOLEAN	Status of the staff member
	Username	CHARACTER VARYING(16)	Staff member's system username
	Password	CHARACTER VARYING(40)	Staff member's system password
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated
	Picture	BYTEA	Picture of the employee

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Table Links

Table	Key Join
Payment	Staff.staff.id = Payment.staff.id
Rental	Staff.staff_id = Rental.staff.id
Address	Staff.address_id = Address.address_id
Store	Staff.store_id = Store.store_id

Table: Customer

Contents




	Column	Data Type	Description
	Customer_id	SERIAL	Primary key for customer table Unique ID for customer
	Store_id	SMALLINT	Store ID of the store the customer rents from Foreign key to the store table
	First_name	CHARACTER VARYING(45)	First name of the customer
	Last_name	CHARACTER VARYING(45)	Last name of the customer
	Email	CHARACTER VARYING(50)	Email address of the customer
	Address_id	SMALLINT	Address ID of the customer's address Foreign key to the address table
	Activebool	BOOLEAN	True or false indicator for dimension
	Create_date	DATE	Date the record of the customer was created
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated
	Active	INTEGER	Status of the customer

Table Links

Table	Key Join
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Rental	Customer.customer_id = Rental.customer_id
Payment	Customer.customer_id = Payment.customer_id
Store	Customer.store_id = Store.store_id
Address	Customer.address_id = Address.address_id

Table: Film_Category

Contents




	Column	Data Type	Description
	Film_id	SMALLINT	Composite key for film_category table Unique ID for film Foreign key to the film table
	Category_id	SMALL INT	Composite key for film_category table Unique ID for film category Foreign key to the category table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Film	Film_Category.film_id = Film.film_id
Inventory	Film_Category.film_id = Inventory.film_id
Film_Actor	Film_Category.film_id = Film_Actor.film_id
Category	Film_Category.category_id = Category.category_id

Table: Film_Actor

Contents

	Column	Data Type	Description
	Actor_id	SMALLINT	Composite key for film_actor table

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			Unique ID for actor Foreign key to the actor table
 	Film_id	SMALL INT	Composite key for film_actor table Unique ID for film Foreign key to the film table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Actor	Film_Actor.actor_id = Actor.actor_id
Film	Film_Actor.film_id = Film.film_id

Table: Actor

Contents


	Column	Data Type	Description
	Actor_id	SMALLINT	Primary key for actor table Unique ID for actor
	First_name	CHARACTER VARYING(45)	First name of the actor
	Last_name	CHARACTER VARYING(45)	Last name of the actor
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Film_Actor	Actor.actor_id = Film_Actor.actor_id

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Table: Film

Contents



	Column	Data Type	Description
	Film_id	SERIAL	Primary key for film table Unique ID for film
	Title	CHARACTER VARYING(255)	Title of the film
	Description	TEXT	Description of the film
	Release_year	Year	Year the film was released
	Language_id	SMALLINT	ID of the language the film is in Foreign key to the language table
	Rental_duration	SMALLINT	Length of the rental allowed
	Rental_rate	NUMERIC(4,2)	Rate (dollar amount) of the rental
	Length	SMALLINT	Length / duration of the movie
	Replacement_cost	NUMERIC(5,2)	Cost (dollar amount) of the item if it needs to be replaced
	Rating	MPAA_rating	MPAA rating of the film
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated
	Special_features	TEXT[]	Any special features included in the film
	Fulltext	TSVECTOR	Text of the film's script

Table Links

Table	Key Join
Language	Film.language_id = Language.language_id
Inventory	Film.film_id = Inventory.film_id
Film_Actor	Film.film_id = Film_Actor.film_id
Film_Category	Film.film_id = Film_Category.film_id

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Table: Category

Contents


	Column	Data Type	Description
	Category_id	SERIAL	Primary key for category table Unique ID for film's category
	Name	CHARACTER VARYING(25)	Name of the category the film falls into
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Film_Category	Category.category_id = Film_Category.category_id

Table: Language

Contents


	Column	Data Type	Description
	Language_id	SMALLINT	Primary key for language table Unique ID for language
	Name	CHARACTER VARYING(20)	Name of the language the film is in
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time the table record was last updated

Table Links

Table	Key Join
Film	Language.language_id = Film.language_id