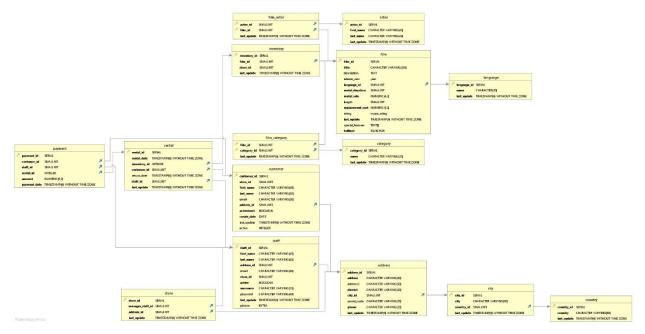
ROCKBUSTER STEALTH

Data Dictionary
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02 February 2022

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1. Entity Relationship Diagram (ERD)



2. Fact Table

2.1 Rental

| Columns | Data Type | Description |
|--------------|---------------------------|---|
| rental_id | serial | identifying number for a rental transaction |
| | timestamp[6] without time | |
| rental_date | zone | date a rental was executed |
| inventory_id | integer | identifying number for a movie being rented |
| customer_id | smallint | identifying number for a customer |
| | timestamp[6] without time | |
| return_date | zone | date a rental was returned |
| staff_id | smallint | identifying number for employee |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|-----------|---------|------------------------------------|
| payment | rental_id | primary | payment.rental_id=rental.rental_id |

| Column | Key | Links to | Join |
|--------------|---------|-----------|--|
| inventory_id | foreign | inventory | inventory.inventory_id=rental.inventory_id |
| customer_id | foreign | customer | customer.customer_id=rental.customer_id |
| customer_id | | payment | payment.customer_id=rental.customer_id |
| staff_id | foreign | staff | staff.staff_id=rental.staff_id |
| staff_id | | store | store.manager_staff_id=rental.staff_id |

3. Dimension Tables:

3.1 payment

| Columns | Data Type | Description |
|--------------|----------------------|---|
| payment_id | serial | identifying number for a payment |
| customer_id | smallint | identifying number for a customer |
| staff_id | smallint | identifying number for an employee |
| rental_id | integer | identifying number for a rental transaction |
| amount | numeric[5,2] | dollar amount paid |
| | timestamp[6] without | |
| payment_date | time zone | date a payment was executed |

| Links from | Column | Key | Join |
|------------|------------|---------|------|
| n/a | payment_id | primary | |

| Column | Key | Links to | Join |
|-------------|---------|----------|--|
| customer_id | foreign | customer | customer.customer_id=payment.customer_id |
| customer_id | | rental | rental.customer_id=payment.customer_id |
| staff_id | foreign | staff | staff.staff_id=payment.staff_id |
| staff_id | | store | store.manager_staff_id=payment.staff_id |
| rental_id | foreign | rental | rental.rental_id=payment.rental_id |

3.2 film_actor

| Columns | Data Type | Description |
|-------------|---------------------------|---------------------------------|
| actor_id | smallint | identifying number for an actor |
| film_id | smallint | identifying number for a film |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|----------|-----------|------|
| n/a | actor_id | unique/ | |
| | | composite | |
| n/a | film_id | unique/ | |
| | | composite | |

| Column | Key | Links to | Join |
|----------|---------|---------------|--|
| actor_id | foreign | actor | actor.actor_id=film_actor.actor_id |
| film_id | foreign | film | film.film_id=film_actor.film_id |
| film_id | | inventory | inventory.film_id=film_actor.film_id |
| film_id | | film_category | film_category.film_id=film_actor.film_id |

3.3 inventory

| Columns | Data Type | Description |
|--------------|---------------------------|--------------------------------------|
| | | identifying number for a movie being |
| inventory_id | serial | rented/item in inventory |
| film_id | smallint | identifying number for a film |
| store_id | smallint | identifying number for store |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|--------------|---------|--|
| rental | inventory_id | primary | rental.inventory_id=inventory.inventory_id |

| Column | Key | Links to | Join |
|---------|---------|---------------|---|
| film_id | foreign | film | film.film_id=inventory.film_id |
| film_id | | film_actor | film_actor.film_id=.inventory.film_id |
| film_id | | film_category | film_category.film_id=inventory.film_id |

3.4 film_category

| | , | | | |
|-------------|---------------------------|---|--|--|
| Columns | Data Type | Description | | |
| film_id | smallint | identifying number for a film | | |
| category_id | smallint | identifying number for a category of film | | |
| | timestamp[6] without time | | | |
| last_update | zone | date this record was updated | | |

| Links from | Column | Key | Join |
|---------------|-------------|-------------------|------|
| n/a | film_id | primary/composite | |
| n/a | category_id | primary/composite | |

| Column | Key | Links to | Join |
|-------------|---------|------------|--|
| film_id | foreign | film | film.film_id=film_category.film_id |
| film_id | | film_actor | film_actor.film_id=film_category.film_id |
| film_id | | inventory | inventory.film_id=film_category.film_id |
| category_id | foreign | category | category.category_id=film_category.category_id |

3.5 customer

| Columns | Data Type | Description |
|-------------|---------------------------|--|
| customer_id | serial | identifying number for a customer |
| store_id | smallint | identifying number for store |
| first_name | character varying [45] | first name of customer |
| last_name | character varying [45] | last name of customer |
| email | character varying [45] | email of customer |
| address_id | smallint | identifying number for address |
| activebool | boolean | true statement when record is created |
| create_date | date | date this record was created |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |
| | | on 5/27/2013, logged as "0" if not active, |
| active | integer | remained "1" if active |

| Links from | Column | Key | Join |
|------------|-------------|---------|--|
| rental | customer_id | primary | rental.customer_id=customer.customer_id |
| payment | customer_id | primary | payment.customer_id=customer.customer_id |

| Column | Key | Links to | Join |
|------------|---------|----------|--|
| address_id | foreign | address | address.address_id=customer.address_id |

3.6 staff

| Columns | Data Type | Description |
|-------------|---------------------------|--|
| staff_id | serial | identifying number for employee |
| first_name | character varying [45] | first name of employee |
| last_name | character varying [45] | last name of employee |
| address_id | smallint | identifying number for address |
| email | character varying [45] | email of employee |
| store_id | smallint | identifying number for store |
| | | true/false statement indicating employment |
| active | boolean | status active/not active |
| username | character varying [16] | employee username |
| password | character varying [40] | employee password |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |
| picture | bytea | image file containing employee photo |

| Links from | Column | Key | Join |
|------------|----------|---------|---------------------------------------|
| rental | staff_id | primary | rental.staff_id=staff.staff_id |
| payment | staff_id | primary | payment.staff_id=staff.staff_id |
| store | staff_id | primary | store.manager_staff_id=staff.staff_id |
| | | | |

| Column | Key | Links to | Join |
|------------|---------|----------|-------------------------------------|
| address_id | foreign | address | address.address_id=staff.address_id |

3.7 store

| Columns | Data Type | Description |
|------------------|---------------------------|--|
| store_id | serial | identifying number for store |
| manager_staff_id | smallint | identifying number for management employee |
| address_id | smallint | identifying number for address |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|----------|---------|------|
| n/a | store_id | primary | |

| Column | Key | Links to | Join |
|------------------|---------|----------|---|
| manager_staff_id | foreign | staff | staff.manager_staff_id=store.manager_staff_id |
| address_id | foreign | address | address.address_id=store.address_id |

3.8 actor

| Columns | Data Type | Description |
|-------------|---------------------------|---------------------------------|
| actor_id | serial | identifying number for an actor |
| first_name | character varying [45] | first name of actor |
| last_name | character varying [45] | last name of actor |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|----------|---------|------------------------------------|
| film_actor | actor_id | primary | film_actor.actor_id=actor.actor_id |

3.9 film

| Columns | Data Type | Description |
|------------------|---------------------------|---|
| film_id | serial | identifying number for a film |
| title | character varying [255] | title of film |
| description | text | brief description/summary of film |
| release_year | year | year film released (which were all 2006) |
| language_id | smallint | identifying number for a language used in film |
| rental_duration | smallint | number of days film is rented for at rental rate |
| rental_rate | numeric[4,2] | customer's cost to rent film |
| length | smallint | length of movie in minutes |
| replacement_cost | numeric [5,2] | company's cost to replace film |
| rating | mpaa_rating | mpaa rating for viewers |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |
| | | special features of film (trailers, deleted scenes, |
| special_features | text | etc) |
| | | shows frequency of words from text *not sure |
| fulltext | tsvector | where* |

| Links from | Column | Key | Join |
|---------------|---------|---------|-------------------------------------|
| inventory | film_id | primary | inventory.film_id=film.film_id |
| film_category | film_id | primary | film_category.film_id= film.film_id |
| film_actor | film_id | primary | film_actor.film_id= film.film_id |

| Column | Key | Links to | Join |
|-------------|---------|----------|---------------------------------------|
| language_id | foreign | language | language.language_id=film.language_id |

3.10 category

| Columns | Data Type | Description |
|-------------|---------------------------|---|
| category_id | serial | identifying number for a category of film |
| name | character varying [25] | category of film name |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|---------------|-------------|---------|--|
| film_category | category_id | primary | film_category.category_id=category.category_id |

3.11 language

| Columns | Data Type | Description |
|-------------|---------------------------|--|
| language_id | serial | identifying number for language used in film |
| name | character varying [20] | name of language used in film |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|-------------|---------|--------------------------------------|
| film | language_id | primary | film.language_id=language.anguage_id |

3.12 address

| Columns | Data Type | Description |
|-------------|------------------------|-----------------------------------|
| address_id | serial | identifying number for an address |
| address | character varying [50] | number and street address |
| address2 | character varying [50] | number and street address (2) |
| district | character varying [20] | name of district/province/state |
| city_id | smallint | identifying number for a city |
| postal_code | character varying [10] | postal code |
| phone | character varying [20] | phone number |

| | timestamp[6] without time | |
|-------------|---------------------------|------------------------------|
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|------------|---------|---|
| customer | address_id | primary | customer.address_id= address.address_id |
| staff | address_id | | staff.address_id= address.address_id |
| store | address_id | | store.address_id= address.address_id |
| | | | |

| Column | Key | Links to | Join |
|---------|---------|----------|------------------------------|
| city_id | foreign | city | city.city_id=address.city_id |

3.13 city

| Columns | Data Type | Description |
|-------------|---------------------------|----------------------------------|
| city_id | serial | identifying number for a city |
| city | character varying [50] | name of city |
| country_id | smallint | identifying number for a country |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|---------|---------|------------------------------|
| address | city_id | primary | address.city_id=city.city_id |

| Column | Key | Links to | Join |
|------------|---------|----------|------------------------------------|
| country_id | foreign | country | country.country_id=city.country_id |

3.14 country

| Columns | Data Type | Description |
|-------------|---------------------------|----------------------------------|
| country_id | serial | identifying number for a country |
| country | character varying [50] | name of country |
| | timestamp[6] without time | |
| last_update | zone | date this record was updated |

| Links from | Column | Key | Join |
|------------|------------|---------|------------------------------------|
| city | country_id | primary | city.country_id=country.country_id |