UNIVERSITY OF
TORONTO

Assignment: 5
Course: CSCC43
Deadline: Oct 25th,11:30pm
Submission: via blackboard

Convert the following ER diagram to a corresponding relational database schema using short hand notation. You do not need to know the business rule to convert an ERD to the corresponding relations. This ERD has been drawn using MySQL workbench, which has its own way of representing the relationships, entities, attributes and identifiers. If you are not sure what each symbols mean, try creating an entity by MySQL workbench to learn about these notations.

film_category
- film_id SMALLINT(5)
- category_id TINYINT(3)
- last_update TIMESTAMP
- Indexes

store
- store_id TINYINT(3)
- manager_staff_id TINYINT(3)
- address_id SMALLINT(5)
- last_update TIMESTAMP
- Indexes

address
- address_id SMALLINT(5)
- address VARCHAR(50)
- address2 VARCHAR(50)
- district VARCHAR(20)
- city_id SMALLINT(5)
- postal_code VARCHAR(10)
- phone VARCHAR(20)
- location GEOMETRY
- last_update TIMESTAMP
- Indexes

staff
- staff_id TINYINT(3)
- first_name VARCHAR(45)
- last_name VARCHAR(45)
- address_id SMALLINT(5)
- picture BLOB
- email VARCHAR(50)
- store_id TINYINT(3)
- active TINYINT(1)
- username VARCHAR(16)
- password VARCHAR(40)
- last_update TIMESTAMP
- Indexes

country
- country_id SMALLINT(5)
- country VARCHAR(50)
- last_update TIMESTAMP
- Indexes

rental
- rental_id INT(11)
- rental_date DATETIME
- inventory_id MEDIUMINT(8)
- customer_id SMALLINT(5)
- return_date DATETIME
- staff_id TINYINT(3)
- last_update TIMESTAMP
- Indexes

category
- category_id TINYINT(3)
- name VARCHAR(25)
- last_update TIMESTAMP
- Indexes

city
- city_id SMALLINT(5)
- city VARCHAR(50)
- country_id SMALLINT(5)
- last_update TIMESTAMP
- Indexes

film
- film_id SMALLINT(5)
- title VARCHAR(255)
- description TEXT
- release_year YEAR(4)
- language_id TINYINT(3)
- original_language_id TINYINT(3)
- rental_duration TINYINT(3)
- rental_rate DECIMAL(4,2)
- length SMALLINT(5)
- replacement_cost DECIMAL(5,2)
- rating ENUM(...)
- special_features SET(...)
- last_update TIMESTAMP
- Indexes

payment
- payment_id SMALLINT(5)
- customer_id SMALLINT(5)
- staff_id TINYINT(3)
- rental_id INT(11)
- amount DECIMAL(5,2)
- payment_date DATETIME
- last_update TIMESTAMP
- Indexes

inventory
- inventory_id MEDIUMINT(8)
- film_id SMALLINT(5)
- store_id TINYINT(3)
- last_update TIMESTAMP
- Indexes

actor
- actor_id SMALLINT(5)
- first_name VARCHAR(45)
- last_name VARCHAR(45)
- last_update TIMESTAMP
- Indexes

film_text
- film_id SMALLINT(6)
- title VARCHAR(255)
- description TEXT
- Indexes

customer
- customer_id SMALLINT(5)
- store_id TINYINT(3)
- first_name VARCHAR(45)
- last_name VARCHAR(45)
- email VARCHAR(50)
- address_id SMALLINT(5)
- active TINYINT(1)
- create_date DATETIME
- last_update TIMESTAMP
- Indexes

film_actor
- actor_id SMALLINT(5)
- film_id SMALLINT(5)
- last_update TIMESTAMP
- Indexes

language
- language_id TINYINT(3)
- name CHAR(20)
- last_update TIMESTAMP
- Indexes