Project 5: DVD Rental

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CS3520-X01
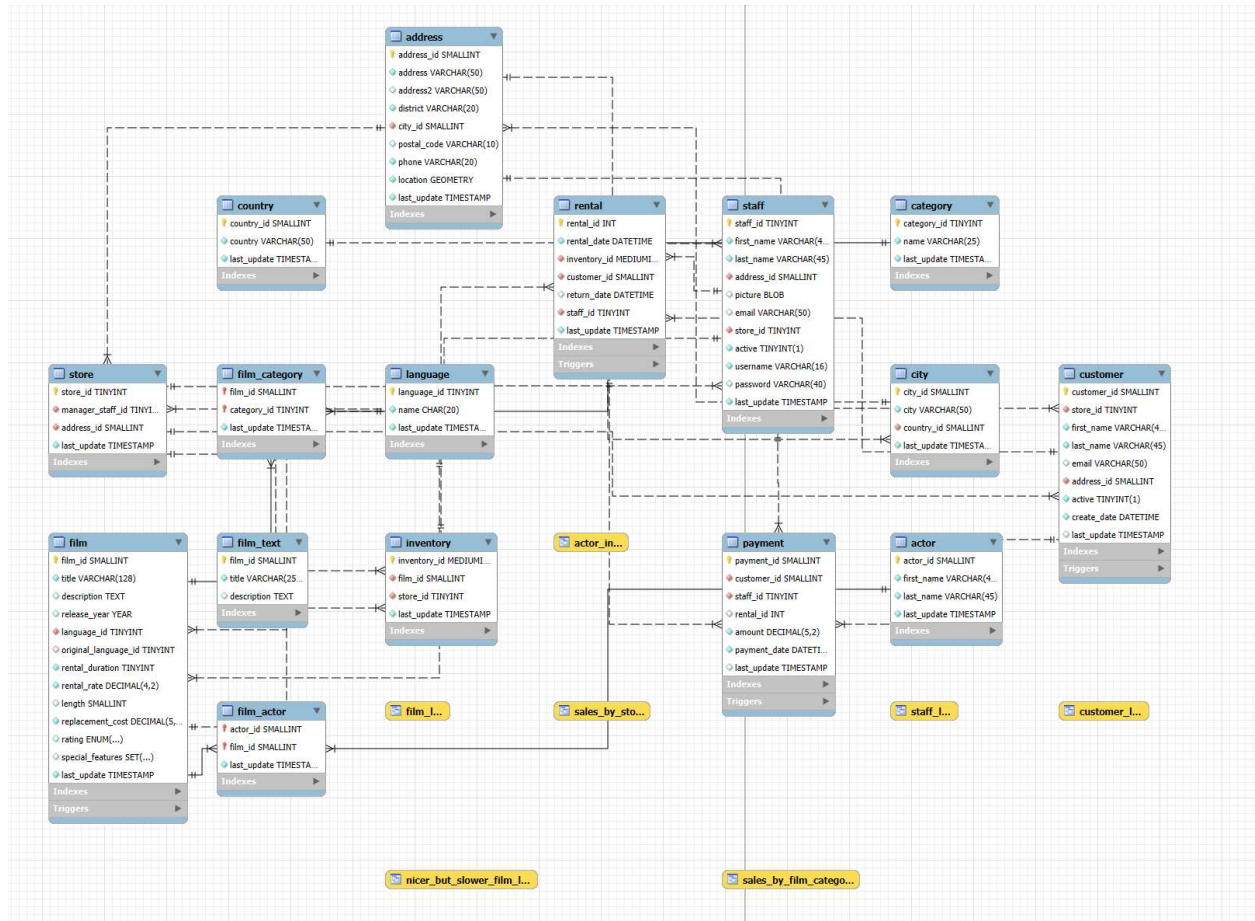
Part 1 - Loading the DVD-Rental Database (23 points)

All tables:

```
1 •    SHOW TABLES
```

Tables_in_sakila
actor
actor_info
address
category
city
country
customer
customer_list
film
film_actor
film_category
film_list
film_text
inventory
language
nicer_but_slow...
payment
rental
sales_by_film_...
sales_by_store
staff
staff_list
store

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

ER Diagram

Part 2 - Write the SQL queries (77 points | 7 points each)

- List first and last names (e.g., John Doe); email only customers whose first name starts with T and last name ends with E.

```
1 •    SELECT first_name, last_name, email
2      FROM customer
3      WHERE first_name LIKE 'T%' AND last_name LIKE '%E';
```

- List the customer ID and first and last name in one row; only inactive customers.

```
1 •    SELECT customer_id, first_name, last_name
2      FROM customer
3      WHERE active = FALSE;
```

- List the countries that start with 'Ne' or 'Pa'

```
1 •    SELECT country
2      FROM country
3      WHERE country LIKE 'Ne%' OR country LIKE 'Pa%';
```

- List the films that begin with 'Ti' or 'Tr'.

```
1 •    SELECT title
2      FROM film
3      WHERE title LIKE 'Ti%' OR title LIKE 'Tr%';
```

- List all the languages available.

```
1 •    SELECT name
2      FROM language;
```

- List the total stores that the company has.

```
1 •    SELECT COUNT(*)
2      FROM store;
```

- List the active staff's first and last name, username, and email address.

```
1 •    SELECT first_name, last_name, username, email
2      FROM staff
3      WHERE active = TRUE;
```

- List customers' first and last names, payment dates, and amounts who paid between July 27/2005 and July 30/2005 (including these days), more than $10. Display the output by the amount in descending order.

```
1 •    SELECT c.first_name, c.last_name, p.payment_date, p.amount
2      FROM payment p
3      JOIN customer c ON p.customer_id = c.customer_id
4      WHERE p.payment_date BETWEEN '2005-07-25' AND '2005-07-30'
5          AND p.amount > 10
6      ORDER BY p.amount DESC;
```

- List customer ID, rental ID, rental date, and return date only those renting a video for two days.

```
1 •    SELECT customer_id, rental_id, rental_date, return_date
2      FROM rental
3      WHERE DATEDIFF(return_date, rental_date) = 2;
```

- Activate the inactive customers to active.

```
1 ●    SET SQL_SAFE_UPDATES = FALSE;
2
3 ●    UPDATE customer
4       SET active = TRUE
5       WHERE active = FALSE AND customer_id IS NOT NULL;
6
7 ●    SET SQL_SAFE_UPDATES = TRUE;
```

- ○ Explain the output.
  - ■ Changes all inactive to active and uses SQL_SAFE_UPDATES to bypass safe mode
  - ■ Output was:

    '15 row(s) affected Rows matched: 15 Changed: 15 Warnings: 0'
    Meaning that 15 rows were selected and 15 were changed

- Remove the inactive staff.

```
1 ●    SET SQL_SAFE_UPDATES = FALSE;
2
3 ●    DELETE FROM STAFF
4       WHERE active = FALSE;
5
6 ●    SET SQL_SAFE_UPDATES = TRUE;
```

- ○ Explain the output.
  - ■ Deletes all inactive staff and uses SQL_SAFE_UPDATES to bypass safe mode
  - ■ Output was:

    '0 row(s) affected'

    Meaning that there were no inactive staff records so nothing was deleted