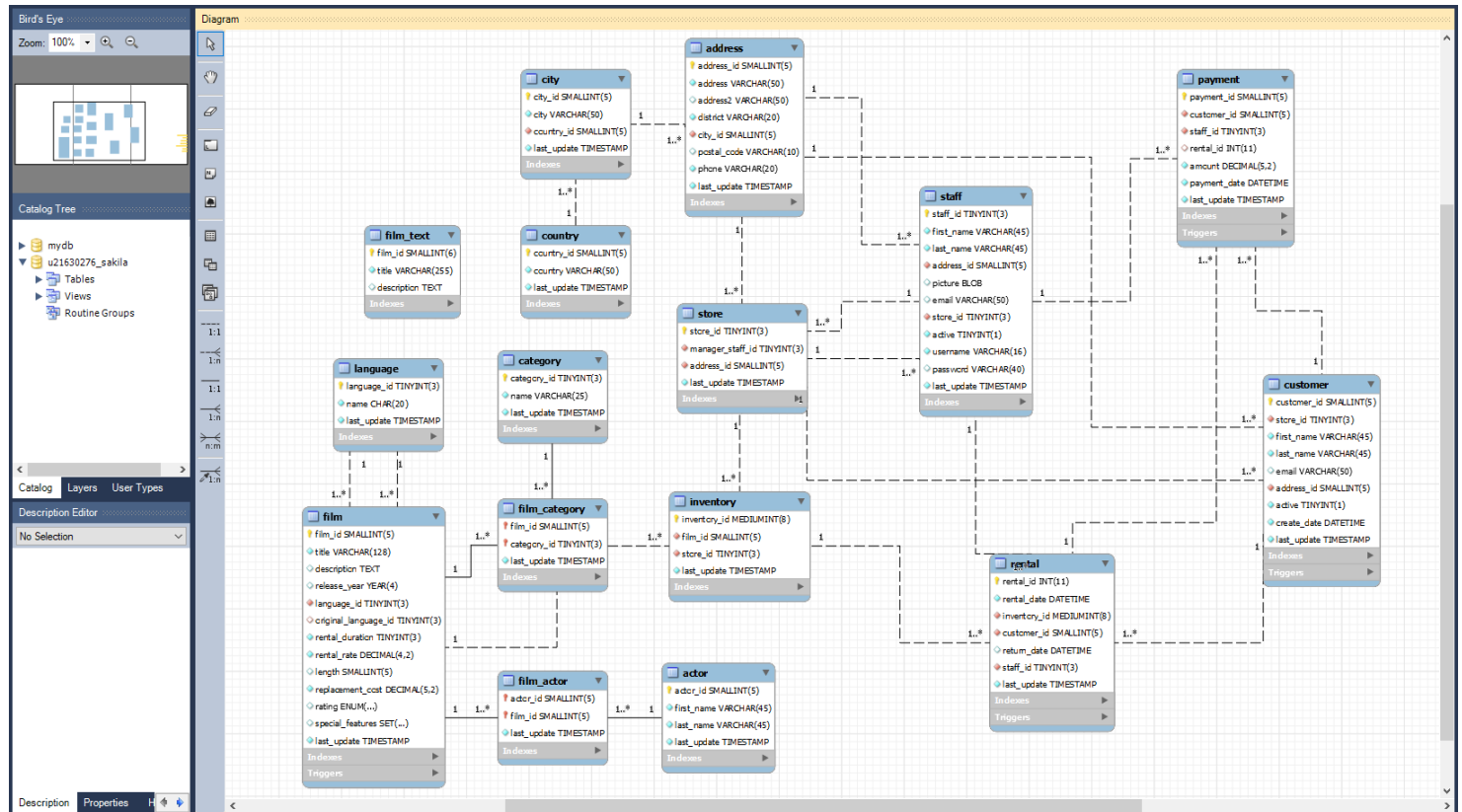


2.1)



2.2)

store table:

This relation holds data about DVD rental store branches, including a primary ID for the store, a foreign key link to the store manager, and address, and data about when each record was last updated.

Columns:

All of the columns are NOT NULL.

- **store_id** is the PRIMARY KEY, of type UNSIGNED TINYINT;
- **manager_staff_id** is a UNIQUE UNSIGNED TINYINT;
- **address_id** is an UNSIGNED SMALLINT;
- and **last_update** is of type TIMESTAMP and is automatically updated to the time a record was last inserted/edited;
- **store_id** is a numerical value that uniquely identifies each store in the table;
- The **store** relation links to **address** through the **address_id** foreign key. The corresponding address represents the physical location of the store.
- It also links to the **staff** relation with the **manager_staff_id** foreign key, which corresponds to the single staff member that is responsible for managing the store.

- Each `customer` is associated with a particular store that they shopped at, and so holds a `store_id` foreign key to link to the corresponding store record.
- `stores` can also have items in their inventory, which correspond to physical stock that the store has available, in particular DVD movies.

Advanced SQL:

In my project I make use of the SQL *IF* function when formatting the `active` column of the `staff` relation, like so:

```
SELECT IF(active=1, 'Yes', 'No') AS 'Active' FROM staff;
```

I also make use of the *CONCAT* function in a few of the *nested* SQL queries in order to format the 'Store' column of the form: `Country, City`

```
SELECT store_id, CONCAT(country, ", ", city) AS storeLoc FROM store, address, city, country
WHERE store.address_id = address.address_id AND address.city_id = city.city_id AND city.country_id =
country.country_id;
```

Additional Notes:

I have set up my project GitHub repo at <https://github.com/Rec1dite/cos221Sakila> as an alternative place to download the project files. Installation instructions are available in the README.md file.