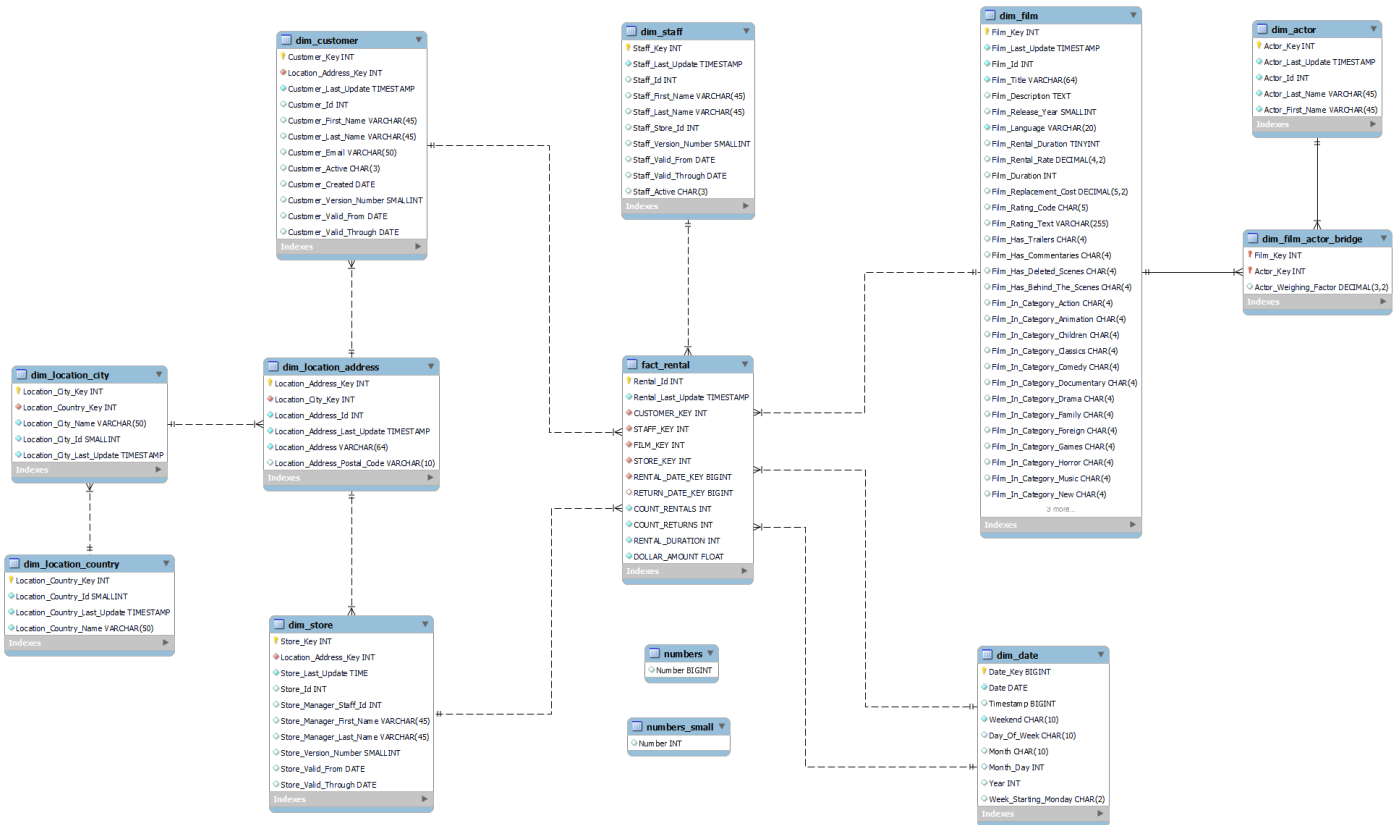


Assignment - 5 - ETL & Fact Table Creation

a) Final sakila_snowflake EER diagram:



b) Areas Of Improvement:

- The Count_Rentals and Count>Returns columns are not very useful as performing a count() on the rows would yield the same result. Moreover, a trigger should be maintained to update Count>Returns after return, which is extra unneeded computation as counting non null return_keys would return the same value.
- We need to create a trigger to maintain the DIM_DATE table for every new day. The trigger would have to calculate the values and insert every day at 12:00 AM to ensure that rentals for that day would not return null.
- Script Warning: Updating all the dates without using a where is a very questionable action, as we should never update without a where clause.
- While inserting into the film table, instead of using case, an IF function would be easier to understand, as case ideally should only be used when there are multiple cases.
- Tables numbers and numbers_small should be dropped as they are orphaned tables not used by or referred by any tables.
- The DIM_STORE does not need the manager first and last name as processing such a join would not take a long time, as staff_ID is an indexed column.

- g. Film_Rental_Duration does not have to be in the fact table as it is already in the film table, especially