

CPSC 471 Fall 2022

Group 54 Project RM

TA: Ahmed Al Marouf

Submission Date: 2022-10-15

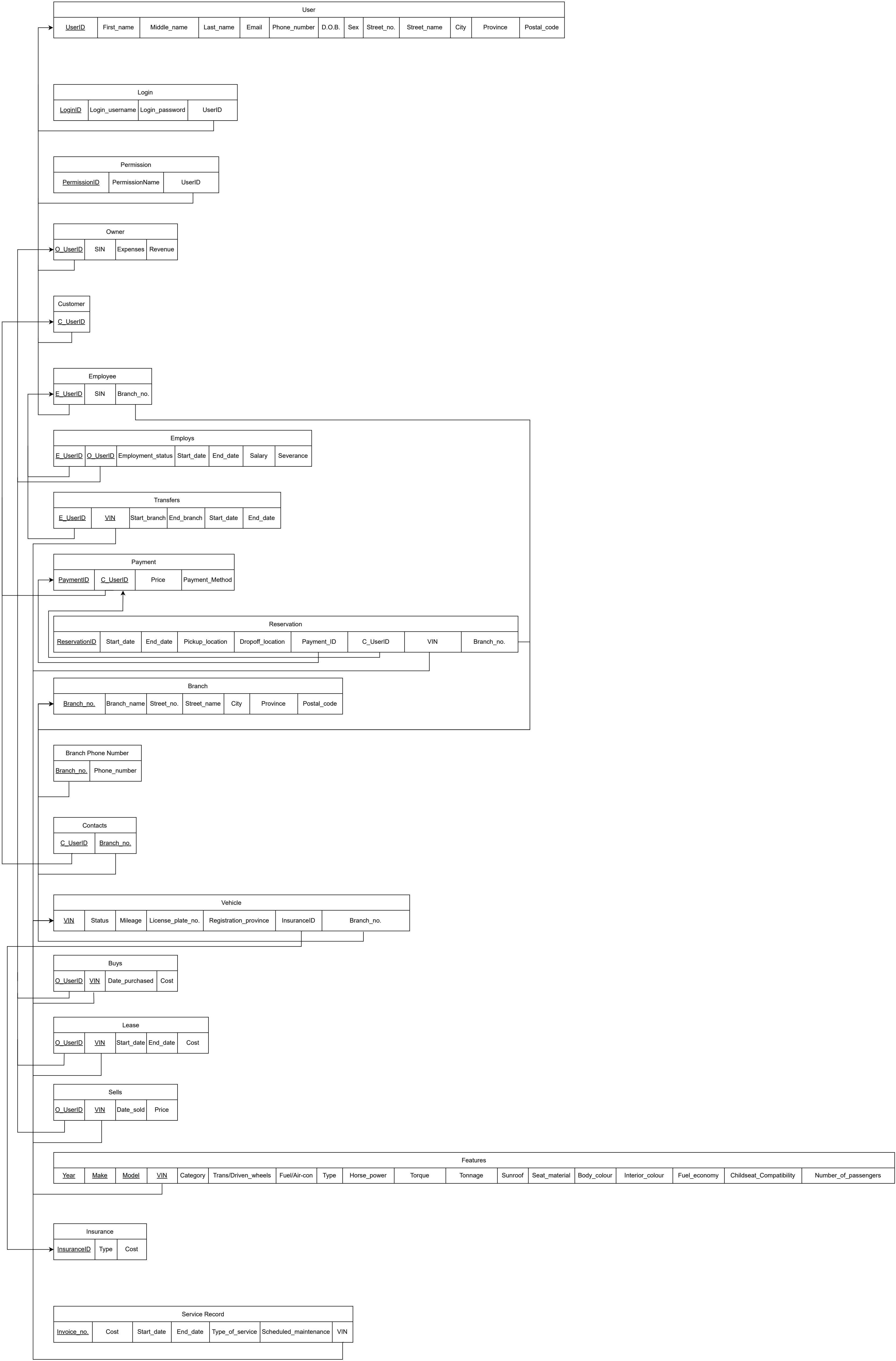
Canada Wide Car Rental Service

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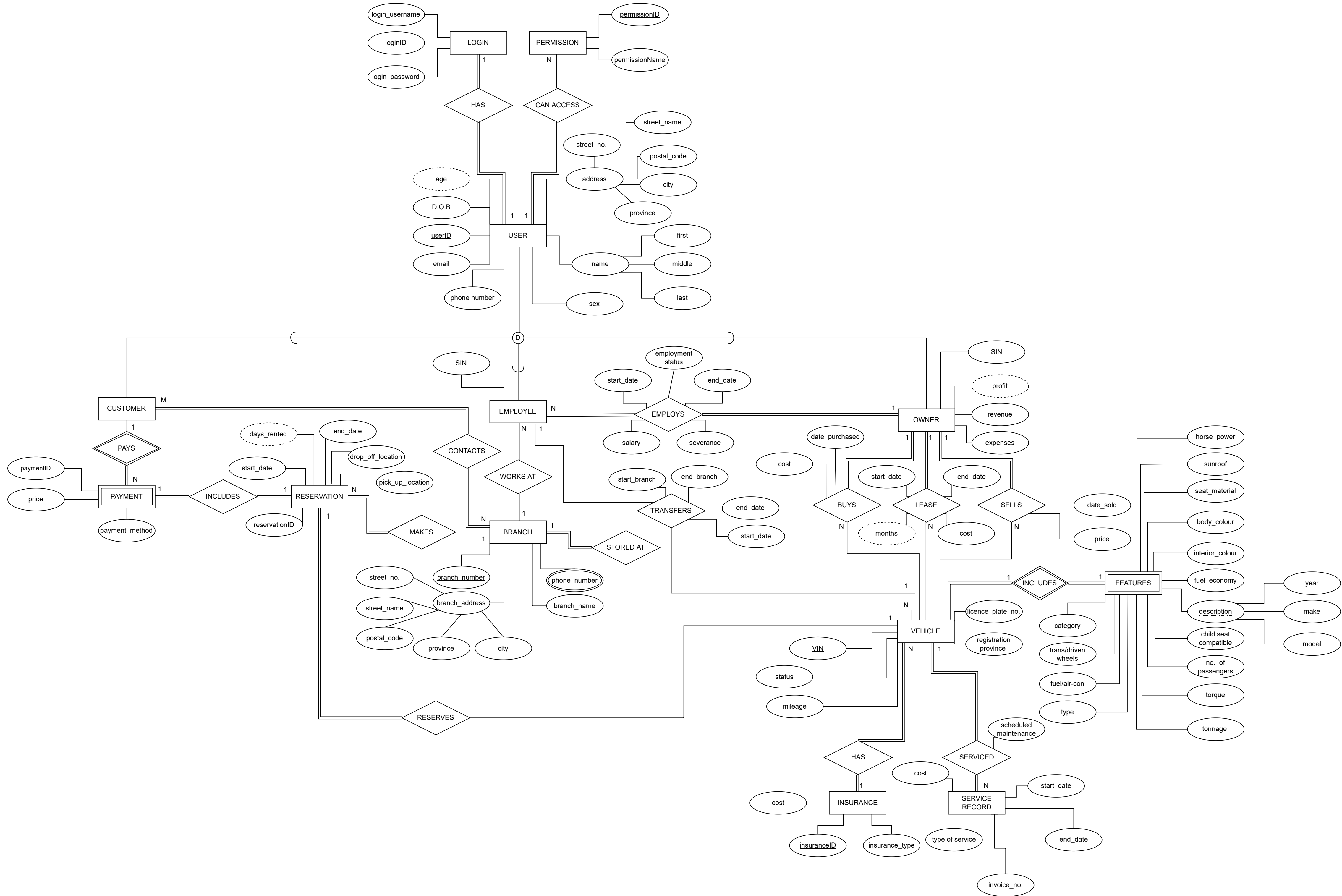
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Assumptions for RM

- CustomerID removed as attribute in ERD
- Vehicle Features “colours” is changed to “body_colour”
- Removed City as a weak entity of branch.
 - Transferred City’s attributes to the attribute branch address of Branch.
- SIN is not a primary attribute for Employee or Owner, it is just a regular attribute.
- Phone number is single valued attribute for User
- Payment method is no longer a composite attribute in the weak entity Payment in the ERD, it is just a simple attribute.
- Insurance type is no longer a composite attribute in the entity Insurance in the ERD, it is just a simple attribute.



Assumptions for ERD

- Payment can only be made with one payment method.
- Car rental insurance is included in the price.
- Every user needs to have a log in to use the system.
- Employee and owner users can have multiple permissions.
- Every user must be a customer, employee, or owner.
- Reservations must be made through the branch.
- Only one reservation can be made at a time.
- Reservations can only be for one vehicle.
- Vehicles can only be purchased, sold, or leased by the owner.
- One employee transfers one vehicle at a time.
- All branches must store at least some vehicles.
- Every vehicle needs to be serviced.
- Every vehicle needs to have insurance.