# DDL – DML Homework: Real Estate Office

1. **Draw an E-R Diagram for the following scenario:**

A real estate firm lists property for sale. The following describes this firm:

* The firm has a number of sales offices in different states. Attributes of the office are Office\_Number, City, State and Zip\_Code.
* A sales office lists property for sale. Attributes of property include Property\_ID, Street Address, City, State, and Zip\_Code. Each unit of property must be listed with one and only one of the sales offices. A sales office may have any number of properties listed (zero or more).
* Each unit of property has one or more owners. Attributes of owner are Owner\_ID, Owner\_FirstName, Owner\_LastName, and Owner\_Phone. An owner may own one or more units of property. An attribute of the many-to-many relationship between property and owner is Percent\_Owned.

1. **After you have the ERD, then code an SQL script to create the tables:** SALES\_OFFICE, PROPERTY, PROP\_OWNER, and PROPERTY-HAS-OWNER. You decide on the appropriate datatypes, such as INT, CHAR, VARCHAR. Be sure to include the following commands at the top of the script to allow for multiple runs.

DROP SCHEMA IF EXISTS DDLHomework;

CREATE SCHEMA DDLHomework;

USE DDLHomework;

1. **Once you have successfully created the 4 tables, write the INSERT statements** to put at least 3 rows in each of the tables. You make up the data. This goes in the same SQL script that creates the tables.

Submit the **ERD as a PDF file** and the SQL script to the ***DDL-DML Homework*** assignment folder in D2L.

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