1. **many-many**

doctors to patients (treats)

Doctors

Patients

Treats

students to classes (taking)

Students

Classes

Taking

animals to habitats (found in)

Animals

Habitats

Found In

**many-one**

cities to climate (climate locations) (assume only one kind of climate per city)

Cities

Climate

Climate Locations

employees to jobs (work) (Assume every employee has exactly one job.)

Employees

Job

Work

schools to mascots (represented by) (Each school has exactly one mascot.)

Schools

Mascots

Represented by

**one-one**

husbands to wives (married) (no polygamy/polyamory, no instances of same-sex pairing)

Husbands

Wives

Married

families to houses (lives in) (Only one family per house)

Families

Houses

Live in

dogs to collars (wears) (Each dog has only one collar.)

Dogs

Collars

Wear

2. a.) Customers purchasing products which are sold at Stores

Customer

Products

Purchase

Stores

b.) Drivers who own cars made by manufacturers (Some drivers may only drive cars from certain manufacturers but every car has only one manufacturer.)

Drivers

Cars

Drives

Manufacturers

3. Chiropractors are doctors who allign the backs of patients with back pain

Doctors

Patients

Treats

isA

isA

Chiropractic

Patients

Chiropractors

Alligns

**I, Justin Anthony Timberlake, declare that I have completed this assignment completely and entirely on my own, without any consultation with others. I understand that any breach of the UAB Academic Honor Code may result in severe penalties.**