Rodrigo Luzuriaga

CISD40

3/9/18

1. Write the business rule(s) that govern the relationship between AGENT and CUSTOMER.
   1. There is **one** Agent to **many** Customers.
2. Given the business rule(s) you wrote in Problem 1, create the basic Crow’s Foot ERD.

AGENT

CUSTOMER

1

M

SERVES

1. Using the ERD you drew in Problem 2, create the equivalent object representation and UML class diagram.
   1. Object Representation

AGENT

CUSTOMER

AGENT\_CODE

AGENT\_LNAME

AGENT\_FNAME

AGENT\_INITIAL

AGENT\_AREACODE

AGENT\_PHONE

CUS\_CODE

CUS\_LNAME

CUS\_FNAME

CUS\_INITIAL

CUS\_ARECODE

CUS\_PHONE

CUS\_INSURE\_TYPE

CUS\_INSURE\_AMT

CUS\_RENEW\_DATE

AGENT\_CODE

CUSTOMER

M

AGENT

1

* 1. UML Class Diagram

CUSTOMER

AGENT

+ AGENT\_CODE: INT

+ AGENT\_LNAME: STRING

+ AGENT\_FNAME: STRING

+ AGENT\_INITIAL: STRING

+ AGENT\_AREACODE: INT

+ AGENT\_PHONE: STRING

+ CUS\_CODE: INT

+ CUS\_LNAME: STRING

+ CUS\_FNAME: STRING

+ CUS\_INITIAL: STRING

+ CUS\_AREACODE: INT

+ CUS\_PHONE: STRING

+ CUS\_INSURE\_TYPE: STRING

+ CUS\_INSURE\_AMT: DOUBLE

+ CUS\_RENEW\_DATE: DATE

+ AGENT\_CODE: INT

1..1 1..\*

1. Identify each relationship type and write all of the business rules.
   1. There is **one** REGION to **many** STORES.
   2. There is **one** STORE to **many** EMPLOYEES.
   3. There are **many** EMPLOYEES to **one** JOB.
2. Create the basic Crow’s Foot ERD for DealCo.

STORE

REGION

JOB

EMPLOYEE

REGION\_CODE

REGION\_DESCRIPT

STORE\_CODE

STORE\_NAME

STORE\_YTD\_SALES

REGION\_CODE­

EMP\_CODE

EMP\_TITLE

EMP\_LNAME

EMP\_FNAME

EMP\_INITIAL

EMP\_DOB

JOB\_CODE

STORE\_CODE

JOB\_CODE

JOB\_DESCRIPTION

JOB\_BASE\_PAY