FROM t1 JOIN t2

ON id = t2.id

JOIN t3

ON ….

Num 7. Assignment 5 # 7

SELECT vendor\_name, COUNT(DISTINCT(account\_number))

FROM vendors v JOIN invoices i

ON v.vendor\_id= i.vendor\_id

JOIN invoice\_line\_items ili

ON i.invoice\_id = ili.invoice\_id

GROUP BY vendor\_name

HAVING COUNT(DISTINCT(account\_number)) > 1

An entity is the table; is an object

What can be called an entity instance?

Row in the table

Why don’t we put attributes in every relationship?

Inheritance

Top bottom object?

Super type, subtype

Super type contains common attributes, sub type contains unique attributes

Relationship between student and undergraduate?

“is a”

What is the meaning of the double bar with relationship?

Total-completeness

Double-bar: “A student has to be an undergraduate or graduate”

Single-bar: “A student can be an undergraduate or graduate or neither”

O within a O: “A student can be an undergraduate, graduate, or both”

Where is the Subtype discriminator located?

Super type attribute

Bottom-up: specific to general: generalization

How many layers of entities/inheritance can we have?

Infinite

Combining multiple entities into one abstract entity is called what?

Entity cluster