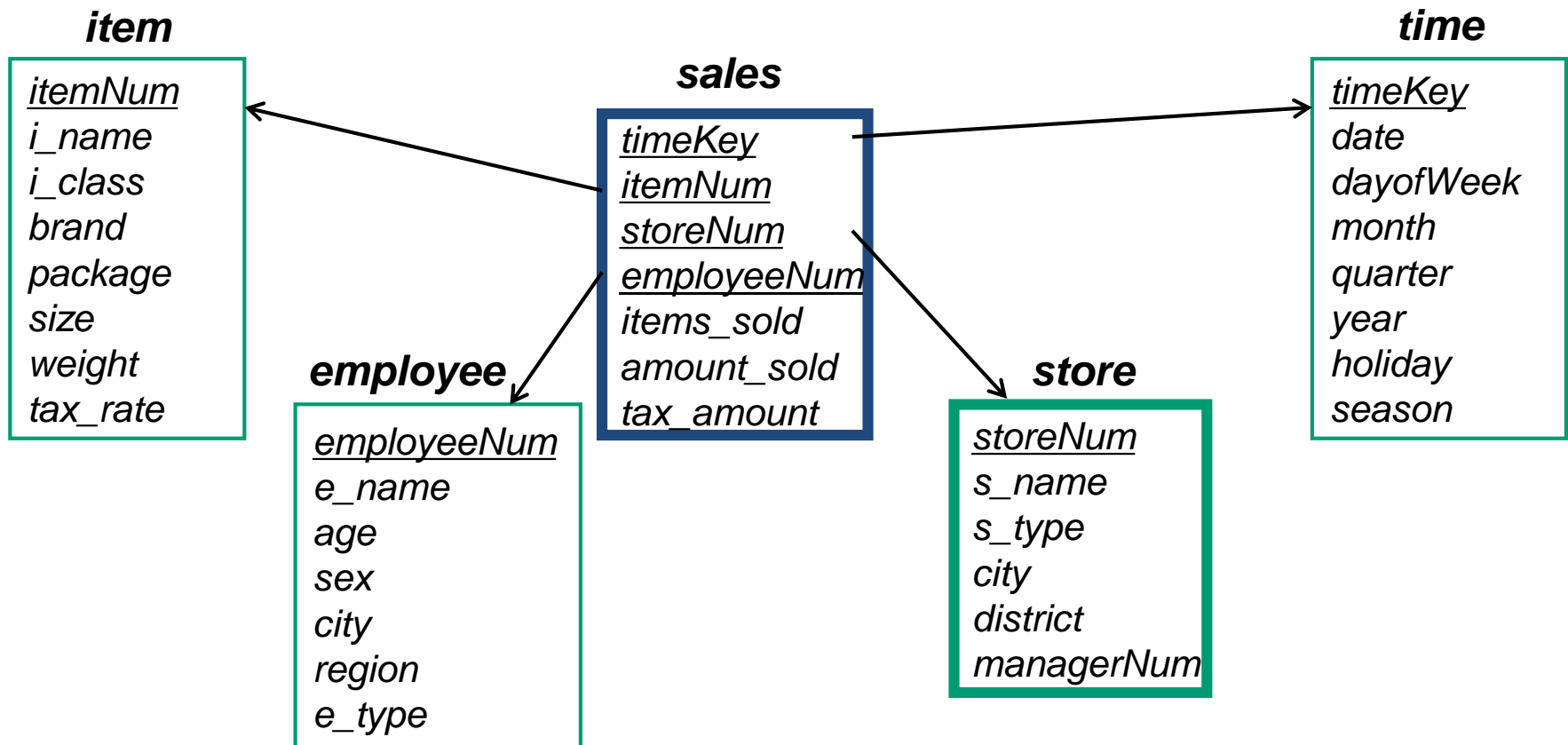# CHAPTER 3
DISCUSSIONS 1

Discussion 3-1

- What is an *integrity constraint*?

Discussion 3-2

- Why are integrity constraint declarations, such as *primary key* and *foreign key*, part of the **create table** statement instead of, say, the **select** or **insert** statement?

Discussion 3-3

- Write **create table** statements for tables *sales* and *store*. Assign appropriate data types and specify relevant constraints.

item

itemNum
i_name
i_class
brand
package
size
weight
tax_rate

sales

timeKey
itemNum
storeNum
employeeNum
items_sold
amount_sold
tax_amount

time

timeKey
date
dayofWeek
month
quarter
year
holiday
season

employee

employeeNum
e_name
age
sex
city
region
e_type

store

storeNum
s_name
s_type
city
district
managerNum

Discussion 3-4

person (*person_name*, *street*, *city*)
company (*company_name*, *city*)
works (*person_name*, *company_name*, *salary*)

- Using the above database schema, represent the following queries in *SQL.*

  A. *Find all names of persons.*

  B. *Find the names of persons who live in "Seoul"*

Discussion 3-5

person (*person_name*, *street*, *city*)
company (*company_name*, *city*)
works (*person_name*, *company_name*, *salary*)

- Using the above database schema, represent the following queries in *SQL*.

  A. *Find names of people who work for "SNU" and earn more than 1,000,000*

  B. *Find salaries for persons who live in 'Seoul'*

  C. *Find names of persons who live in 'Seoul' but work in 'Incheon'*