

DAO pattern

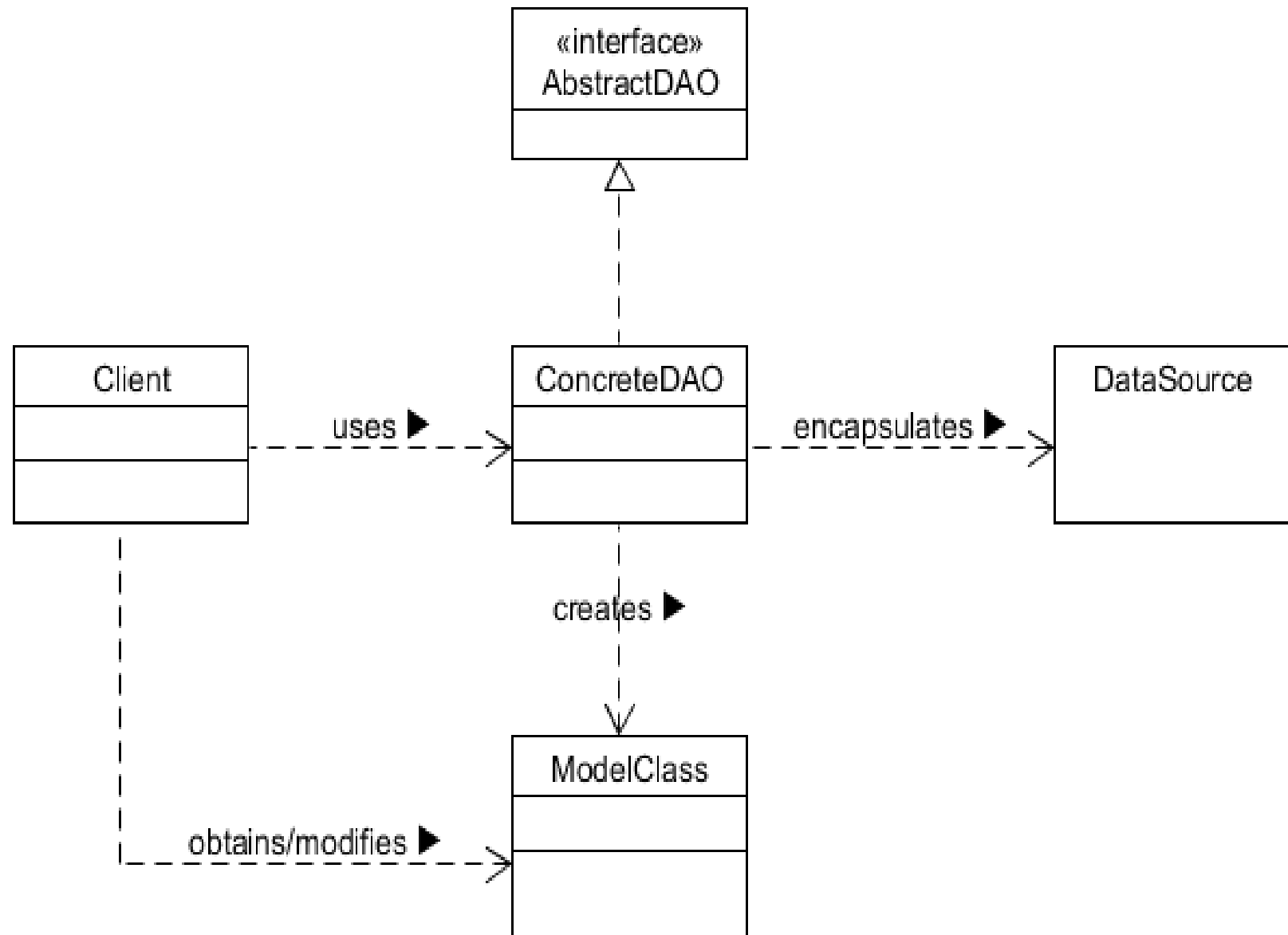
Background

- Have retrieved data from the database
- Have built objects from data from the database
- **Now, we want to organize this**
 - The DAO pattern
 - Data Access Object

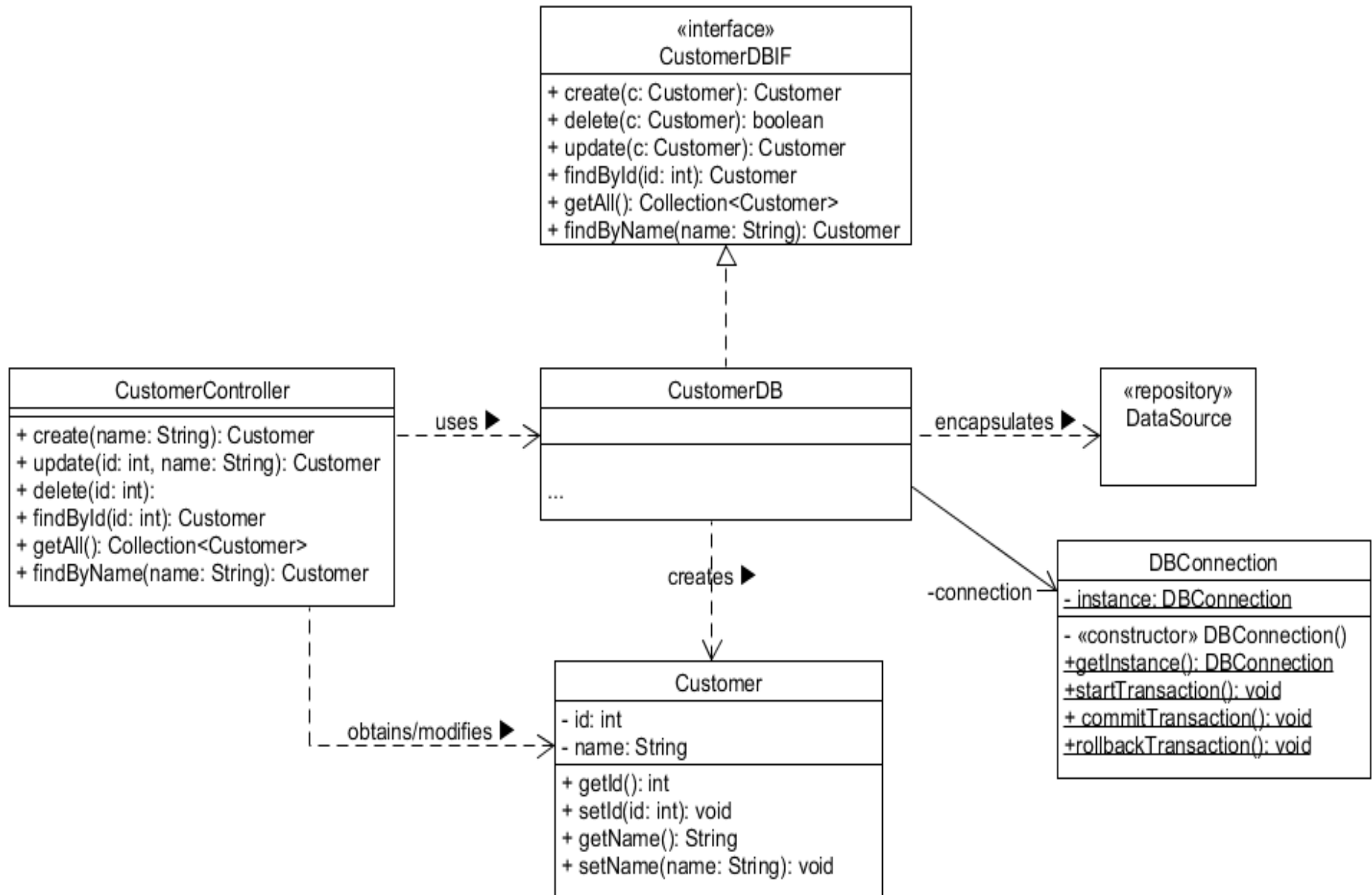
Idea

- Hide the fact that data is represented differently in the DB
- Uniform way of accessing data
 - Model layer is now split into two:
 - Model layer
 - Model classes
 - DB layer
 - The old container classes

At a Glance



Example (Customer)



Plan:

- Be able to print rows from the database
 - Embedded SQL exercise 1 (from 2 sessions ago)
- Be able to build a model layer object from rows
 - Embedded SQL exercise 2 (from 1 session ago)
- Study the pattern on the previous slides
- Study the FCC project from Canvas
- Implement the missing methods
 - Create interfaces, classes, and methods as needed
 - Make sure you test it all!

Conclusion

- We'll conclude with another example
 - Company database