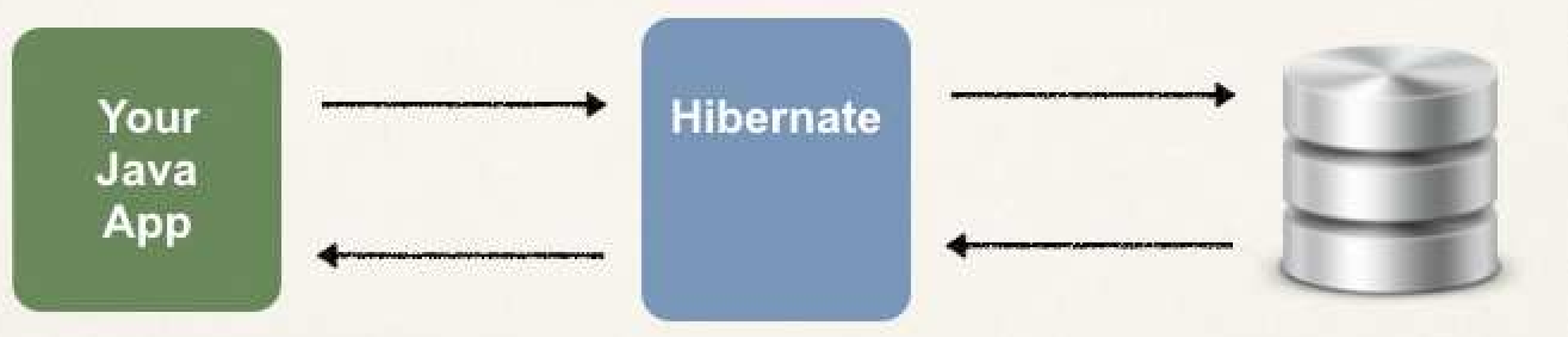
Retrieving an Object

Hibernate CRUD Apps

- Create objects
- Read objects
- Update objects
- Delete objects



Retrieving a Java Object with Hibernate

```
// create Java object
Student theStudent = new Student(“Daffy”, “Duck”, “daffy@luv2code.com");

// save it to database
session.save(theStudent);
...


// now retrieve/read from database using the primary key
Student myStudent =
          session.get(Student.class, theStudent.getId());
```

Querying Objects

Hibernate CRUD Apps

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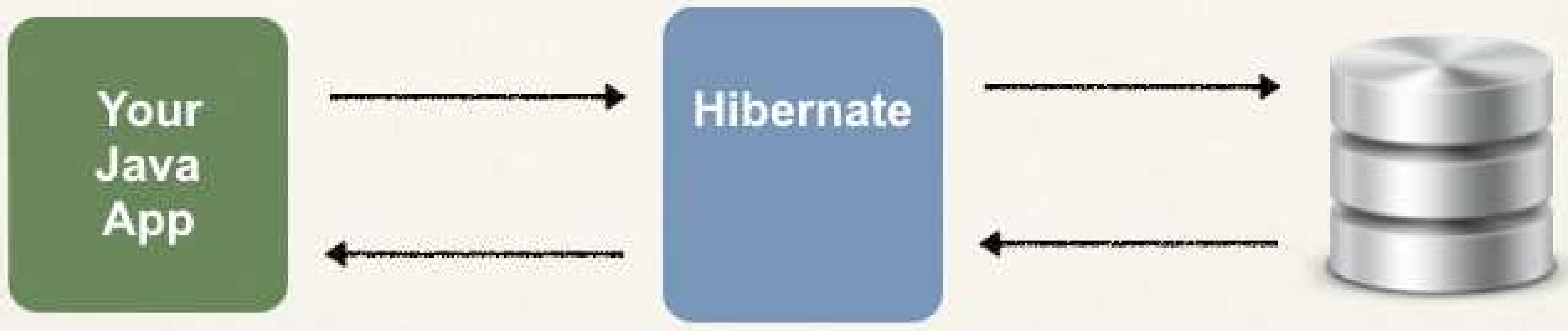


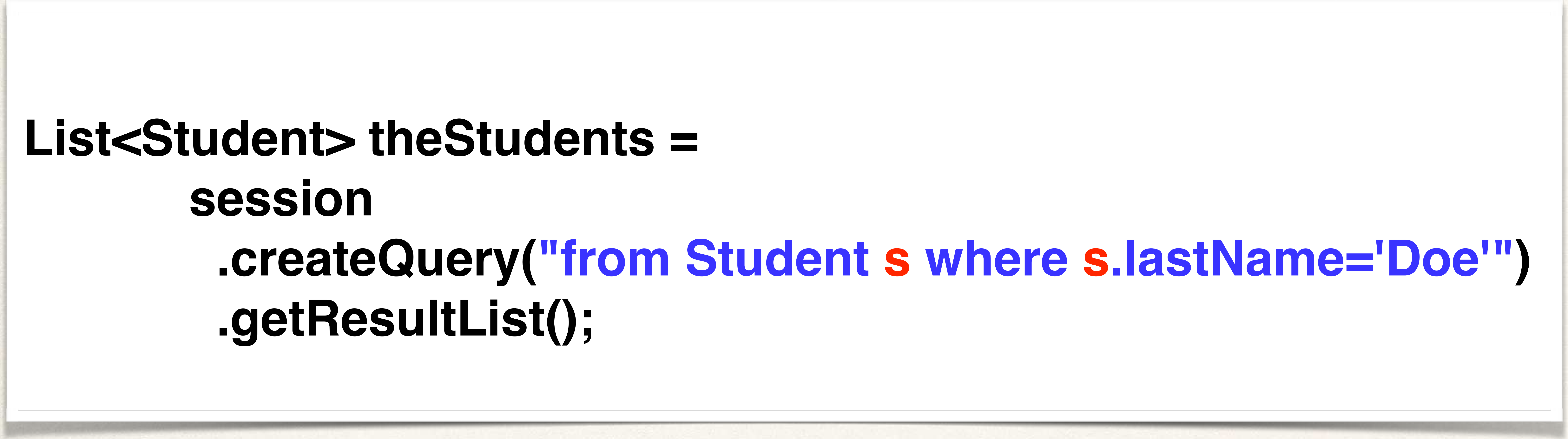
Hibernate Query Language (HQL)

- Query language for retrieving objects
- Similar in nature to SQL
  - where, like, order by, join, in, etc…

Retrieving all Students

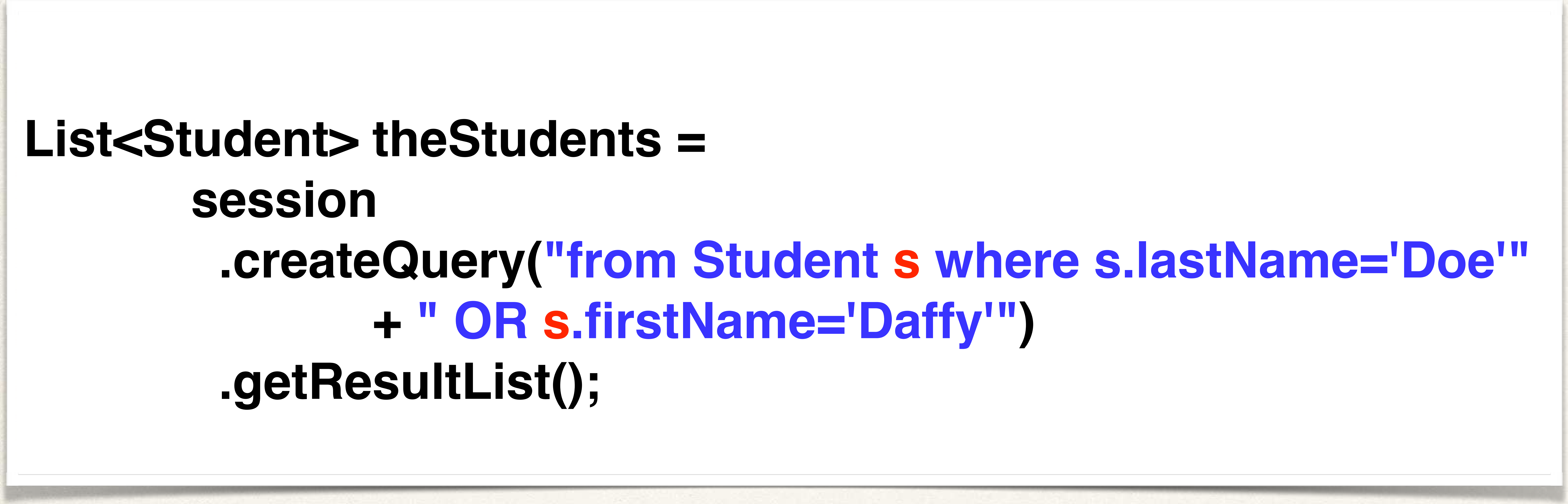
```
List<Student> theStudents =
                session
                    .createQuery("from Student”)
                    .getResultList();
```

Retrieving Students: **lastName = ‘Doe’**



```
List<Student> theStudents =
            session
              .createQuery("from Student s where s.lastName='Doe'")
              .getResultList();
```

Retrieving Students using OR predicate:



```
List<Student> theStudents =
            session
              .createQuery("from Student s where s.lastName='Doe'"
                         + " OR s.firstName='Daffy'")
              .getResultList();
```

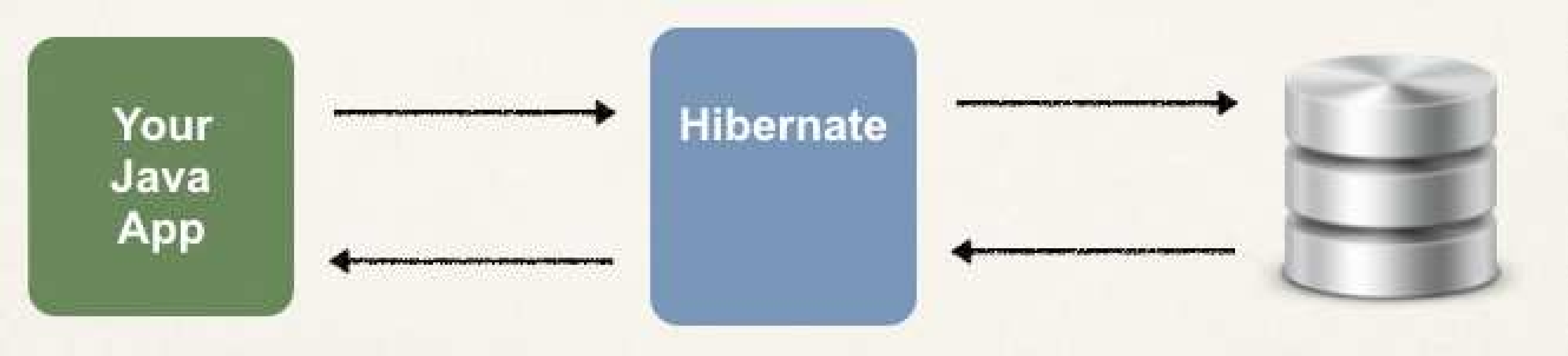
Retrieving Students using LIKE predicate:

```
List<Student> theStudents =
            session
              .createQuery("from Student s where"
                         + " s.email LIKE '%luv2code.com'")
              .getResultList();
```

Updating Object(s)

Hibernate CRUD Apps

- <u>C</u>reate objects
- <u>R</u>ead objects
- <u>U</u>pdate objects
- <u>D</u>elete objects



Update a Student

```
int studentId = 1;

Student myStudent = session.get(Student.class, studentId);

// update first name to "Scooby"
myStudent.setFirstName("Scooby");

// commit the transaction
session.getTransaction().commit();
```

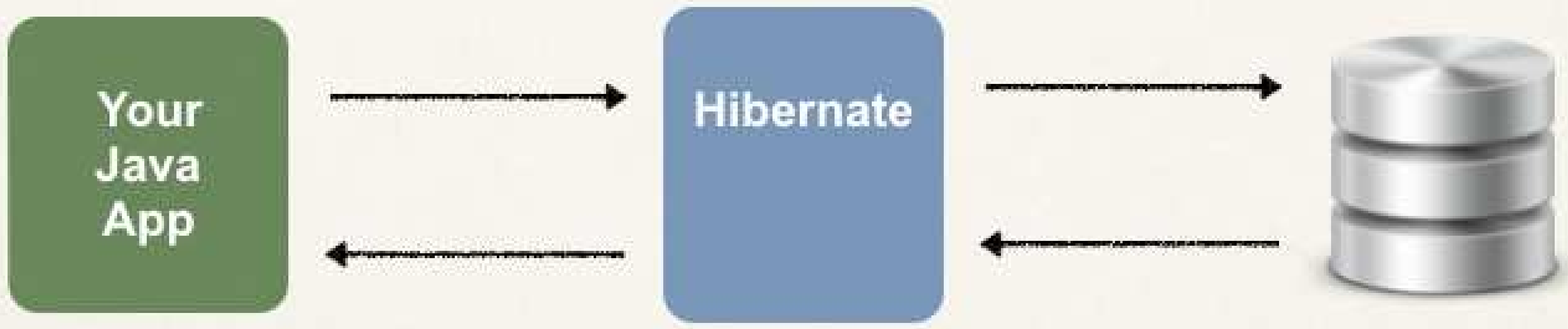
Update email for all students

```
session
    .createQuery("update Student set email='foo@gmail.com'")
    .executeUpdate();
```

Deleting Object(s)

Hibernate CRUD Apps

- Create objects
- Read objects
- Update objects
- Delete objects



Delete a Student

```
int studentId = 1;

Student myStudent = session.get(Student.class, studentId);

// delete the student
session.delete(myStudent);

// commit the transaction
session.getTransaction().commit();
```

Another way of deleting

```
session
    .createQuery(“delete from Student where id=2")
    .executeUpdate();
```