CS544 EA
Applications

Spring Data: Finder Methods

Finder Methods

- The basic provided methods may be enough for a small application
  - Real applications often need more specific methods

- You can **add a finder method**
  - by using the **name of the property**

```
public interface ContactDao extends JpaRepository<Contact, Long> {
    List<Contact> findByName(String name);
}
```

Contact Entity has a name property

Finder Method Prefixes

- The following prefixes start a finder method:
    - `findBy`, `readBy`, `queryBy`, `getBy`, and `countBy`

- They can then contain further expressions like:
    - `Distinct`, `Top10`, `First5`

```java
public interface ContactDao extends JpaRepository<Contact, Long> {
    List<Contact> findDistinctContactByLastname(String lastname);
    List<Contact> findContactDistinctByLastname(String lastname);

    Page<Contact> queryFirst10ByLastname(String lastname, Pageable pageable);
    Slice<Contact> findTop3ByLastname(String lastname, Pageable pageable);
    List<Contact> findFirst10ByLastname(String lastname, Sort sort);
    List<Contact> findTop10ByLastname(String lastname, Pageable pageable);
}
```

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Criteria

- The first **By** acts as a delimiter to indicate the start of the actual criteria

```
    List<Contact> findDistinctContactByLastname(String lastname);
```

- You can combine criteria with **and** and **or**

```
List<Person> findByEmailAddressAndLastname(EmailAddress emailAddress, String lastname);
List<Person> findByLastnameOrFirstname(String lastname, String firstname);
```

- Typical operators are also supported (see next)