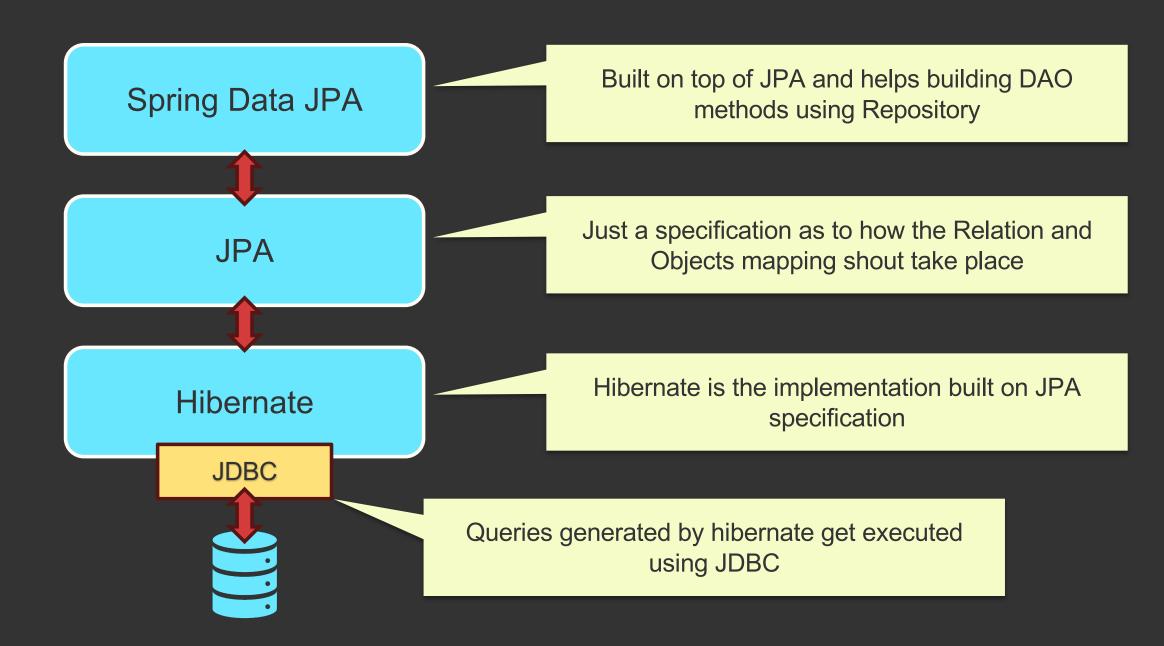


3.3

Spring Data JPA & Dynamic Query Methods









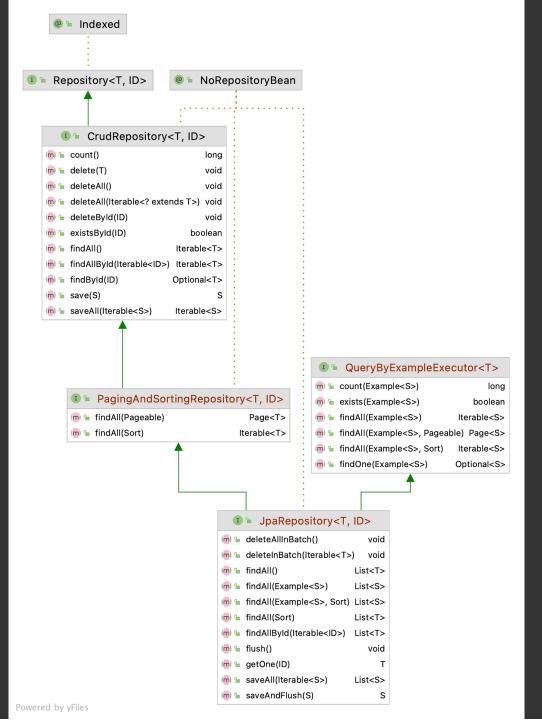
Spring Data JPA

Spring Data JPA is a part of the larger Spring Data family.

It builds on top of JPA, providing a higher-level and more convenient abstraction for data access.

Spring Data JPA makes it easier to implement JPA-based repositories by providing boilerplate code, custom query methods, and various utilities to reduce the amount of code you need to write.

Spring Data JPA Repositories







Key features of Spring Data JPA

- 1. Repository Abstraction: Provides a Repository interface with methods for common data access operations.
- 2. Custom Query Methods: Allows defining custom query methods by simply declaring method names.
- 3. Pagination and Sorting: Offers built-in support for pagination and sorting.
- 4. Query Derivation: Automatically generates queries from method names.



Rules for Creating Query Methods

Query Subject

Input Params

List<Product> findByDateCreatedBetween(LocalDateTime startDate, LocalDateTime endDate);

Return Type

Query Predicate



Rules for Method Names

- 1. The name of our query method must start with one of the following prefixes: find...By, read...By, query...By, and get...By.

 Examples: findByName, readByName, queryByName, getByName
- 2. If we want to limit the number of returned query results, we can add the First or the Top keyword before the first By word.

 Examples: findFirstByName, readFirst2ByName, findTop10ByName



Rules for Method Names

3. If we want to select unique results, we have to add the Distinct keyword before the first By word.

Examples: findDistinctByName or findNameDistinctBy

- 4. Combine property expression with AND and OR.

 Examples: findByNameOrDescription, findByNameAndDescription
- 5. Checkout the Official Doc for more info: https://docs.spring.io/spring-data/jpa/reference/repositories/query-keywords-reference.html

