Spring JPA

#### Query Lookup Strategies

* CREATE: method name
* USE\_DECLARED\_QUERY
* CREATE\_IF\_NOT\_FOUND (default) combines CREATE and USE\_DECLARED\_QUERY

**Query Creation**

* find…By, read…By, query…By, count…By, and get…By, **Containing**
* And, Or
* Between, LessThan, GreaterThan, and Like
* IgnoreCase
* OrderBy
* Parameter: Pageable and Sort

#### Limiting Query Results: first or top

#### Null Handling of Repository Methods: [@Nullable](https://docs.spring.io/spring/docs/5.2.9.RELEASE/javadoc-api/org/springframework/lang/Nullable.html)

### Custom Implementations for Spring Data Repositories

#### reuse customizations

### Publishing Events from Aggregate Roots

* @DomainEvents
* **publish events: service layer or directly inside the aggregate**.
* **We can simply publish events after calling the repository save method inside a service method**.

# **Job scheduling trong Spring Boot**

### 1. Sử dụng annotation @Scheduled

#### - Dùng cho lập lịch đơn giản theo cron expression

#### @EnableScheduling, @Scheduled

#### 2.  Quartz Scheduler

#### - Dùng lập lịch động, phức tạp. Có thể load balancing, tracking job in database