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# Sorting & Pagination



## Sorting with method queries

### **OrderBy**

```
@Repository
public interface EmployeeRepository extends JpaRepository<Employee,
Long> {
    List<Employee> findAllByOrderByNameAsc();
    List<Employee> findAllByOrderByNameDesc();
}
```



### Sorting with the Sort class

#### Sort Parameter In Query Methods

```
@Repository
public interface EmployeeRepository extends JpaRepository<Employee,
Long> {
    List<Employee> findByDepartment(String department, Sort sort);
}
```

#### Using the Sort class

```
Sort sort = Sort.by(Sort.Direction.ASC, sortField);
Sort sort = Sort.by(Sort.Order.asc("name"), Sort.Order.desc("salary"));
```



## **Key Concepts of Pagination**

- Page: A single chunk of data that contains a subset of the total dataset. It is an interface representing a page of data, including information about the total number of pages, total number of elements, and the current page's data.
- Pageable: An interface that provides pagination information such as page number, page size, and sorting options.
- PageRequest: A concrete implementation of Pageable that provides methods to create pagination and sorting information.



### **Using Pageable**

