

Spring Data: CRUD repositories


```
public interface PersonaRepository extends Repository<Persona, Long> {  
    public List<Persona> findByNom(String nom);  
}
```

CRUD = Create, Read, Update i Delete

CrudRepository

```
public interface PersonaRepository extends CrudRepository<Persona, Long> {  
    public List<Persona> findByNom(String nom);  
}
```

CrudRepository = Repository +

- save (entity)
- saveAll (iterable)
- findById (id)
- count()
- delete (entity)
- ...

Create/
Update

```
<S extends T> S save(S entity);  
<S extends T> Iterable<S> saveAll(Iterable<S> entities);
```

Read

```
Optional<T> findById(ID id);  
boolean existsById(ID id);  
Iterable<T> findAll();  
Iterable<T> findAllById(Iterable<ID> ids);  
long count();
```

Delete

```
void deleteById(ID id);  
void delete(T entity);  
void deleteAll(Iterable<? extends T> entities);  
void deleteAll();
```

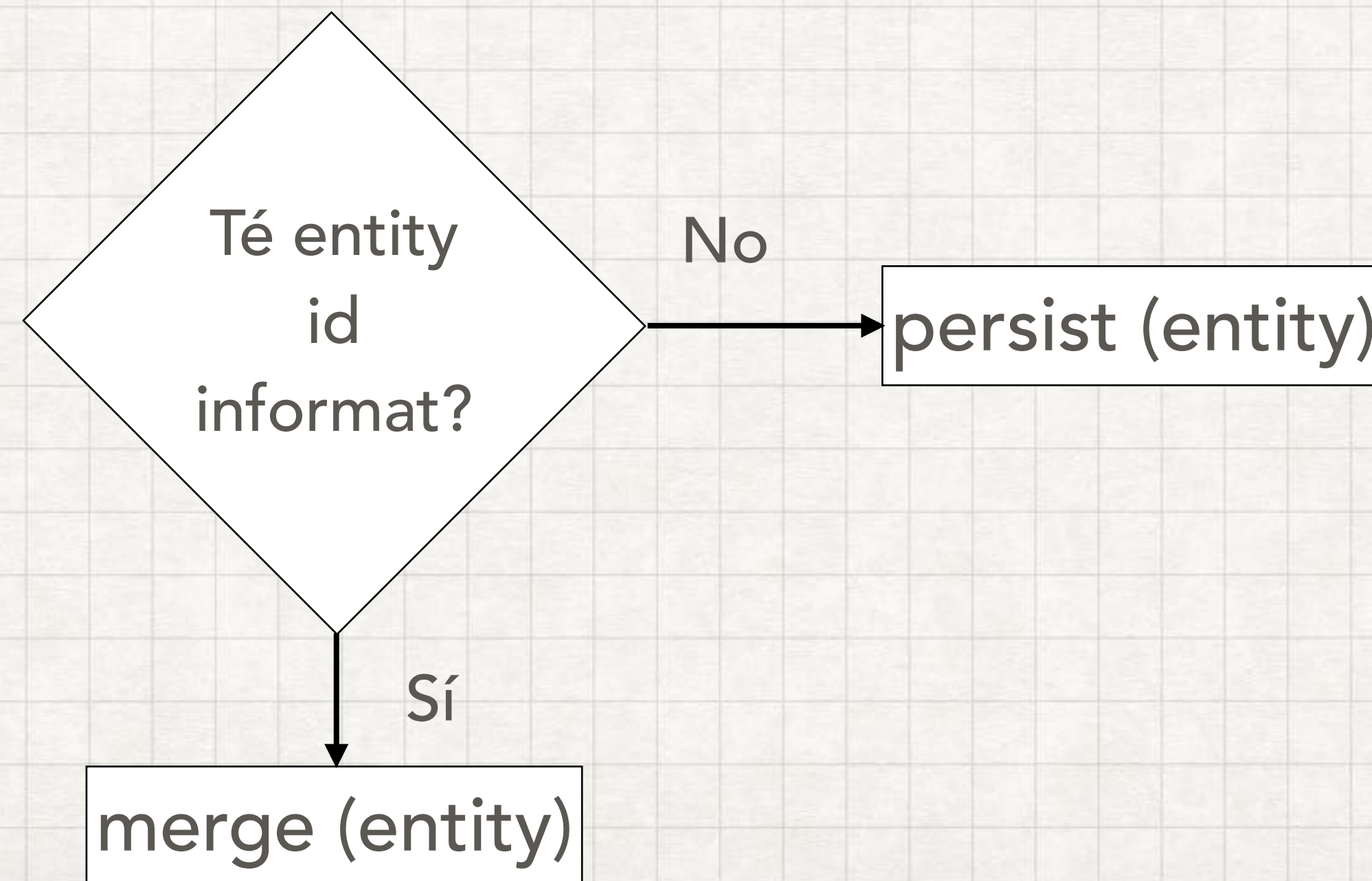
```
}
```

```
public interface CrudRepository<T, ID> extends Repository<T, ID> {
```


Create/
Update

```
public interface CrudRepository<T, ID> extends Repository<T, ID> {  
  
    <S extends T> S save(S entity);  
    <S extends T> Iterable<S> saveAll(Iterable<S> entities);  
    ...  
}
```

S save(S entity);



Read

```
public interface CrudRepository<T, ID> extends Repository<T, ID> {  
    ...  
    Optional<T> findById(ID id);  
    boolean existsById(ID id);  
    Iterable<T> findAll();  
    Iterable<T> findAllById(Iterable<ID> ids);  
    long count();  
    ...  
}
```

Optional<T>

```
Optional<T> retorn = ...;  
  
boolean existeix = retorn.isPresent();  
T valor = retorn.get();  
T valor = retorn.orElse(altra);
```


Delete

```
public interface CrudRepository<T, ID> extends Repository<T, ID> {  
    ...  
    void deleteById(ID id);  
    void delete(T entity);  
    void deleteAll(Iterable<? extends T> entities);  
    void deleteAll();  
}
```