SQL gives you a **flat list**. Now you build the hierarchy in Java:

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```java
Service
ublic class ShortcutService {

    private final ShortcutRepository repository;

    public ShortcutService(ShortcutRepository repository) {
        this.repository = repository;
    }

    public List<Shortcut> getShortcutTree() {
        List<Shortcut> all = repository.fetchHierarchy();

        Map<Long, Shortcut> lookup = new HashMap<>();
        List<Shortcut> roots = new ArrayList<>();

        for (Shortcut s : all) {
            lookup.put(s.getId(), s);
        }

        for (Shortcut s : all) {
            if (s.getParentId() == null) {
                roots.add(s);
            } else {
                Shortcut parent = lookup.get(s.getParentId());
                if (parent != null) {
                    parent.getChildren().add(s);
                }
            }
        }
    }
```

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