

```
interface EmployeeDao {
    void addEmployee(Employee e);
}
```

```
public class EmployeeDaoJdbcImpl implements EmployeeDao {
    public void addEmployee(Employee e) {
        ..
    }
}
```

```
public class EmployeeDaoMongoDbImpl implements EmployeeDao {
    public void addEmployee(Employee e) {
        ..
    }
}
```

```
public class AppService {
    private EmployeeDao empDao;

    public void setEmpDao(EmployeeDao edao) {
        this.empDao = edao;
    }

    public void doTask(Employee e) {
        empDao.addEmployee(e);
    }
}
```

```
private EmployeeDao empDao = new EmployeeDaoJdbcImpl();
```

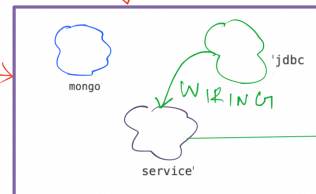
~~TIGHT COUPLING~~

```
ApplicationContext ctx = new ClassPathXmlApplicationContext("beans.xml");
```

```
<beans>
<bean id="mongo" class="pkg.EmployeeDaoMongoDbImpl" />
<bean id="jdbc" class="pkg.EmployeeDaoJdbcImpl" />
<bean id="service" class="pkg.AppService">
    <property name="empDao" ref="jdbc" />
</bean>
</beans>
```

```
setEmpDao(jdbc);
```

METADATA



READY TO USE

```
interface EmployeeDao {
    void addEmployee(Employee e);
}
```

```
@Repository
public class EmployeeDaoJdbcImpl implements EmployeeDao {
    public void addEmployee(Employee e) {
        ..
    }
}
```

```
@Service
```

```
public class AppService {
    @Autowired
    private EmployeeDao empDao;
```

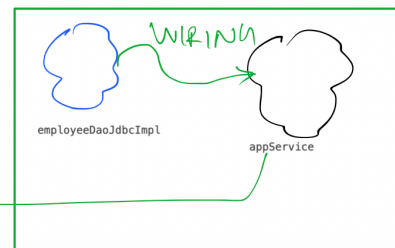
```
    public void doTask(Employee e) {
        empDao.addEmployee(e);
    }
}
```

```
ApplicationContext ctx = new AnnotationConfigApplicationContext();
ctx.scan("com.cisco.prj");
ctx.refresh();
```

```
AppService ser = ctx.getBean("service", AppService.class);
```

```
ser.doTask(new Employee(...));
```

AppService



```

interface EmployeeDao {
    void addEmployee(Employee e);
}

@Repository
public class EmployeeDaoJdbcImpl implements EmployeeDao {
    public void addEmployee(Employee e) {
        ..
    }
}

@Repository
public class EmployeeDaoMongoImpl implements EmployeeDao{
    @Override
    public void addEmployee() {
        System.out.println("Mongo Store!!!");
    }
}

```

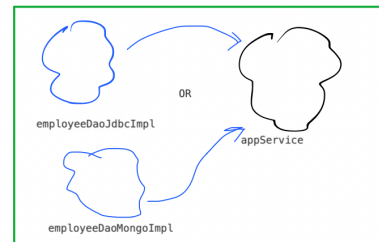
Field employeeDao in com.cisco.springdemo.service.AppService
required a single bean, but 2 were found:
- employeeDaoJdbcImpl:
- employeeDaoMongoImpl:

```

@Service
public class AppService {
    @Autowired
    private EmployeeDao empDao;

    public void doTask(Employee e) {
        empDao.addEmployee(e);
    }
}

```



```

interface EmployeeDao {
    void addEmployee(Employee e);
}

@Repository
public class EmployeeDaoJdbcImpl implements EmployeeDao {
    public void addEmployee(Employee e) {
        ..
    }
}

@Repository
public class EmployeeDaoMongoImpl implements EmployeeDao{
    @Override
    public void addEmployee() {
        System.out.println("Mongo Store!!!");
    }
}

```

```

@Service
public class AdminService {
    @Autowired
    @Qualifier("employeeDaoMongoImpl")
    private EmployeeDao employeeDao;
}

@Service
public class CustomerService {
    @Autowired
    @Qualifier("employeeDaoJdbcImpl")
    private EmployeeDao employeeDao;
}

```

