

# 11、SpringBoot与数据访问

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- 1、JDBC

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-jdbc</artifactId>
</dependency>
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <scope>runtime</scope>
</dependency>
spring:
    datasource:
        username:root
        password:root
        url:jdbc:mysql://192.168.183.101/jdbc?characterEncoding=utf-8
        &serverTimezone=UTC
        driver-class-name:com.mysql.cj.jdbc.Driver
#直接加载sql脚本
initialization-mode:always
schema:
    -classpath:department.sql
schema-*.sql、data-*.sql
默认规则: schema.sql, schema-all.sql;
可以使用
    schema:
        - classpath:department.sql
指定位置
```

- 2、整合Druid数据源

@Configuration

```
public class DruidConfig {
```

```
    @ConfigurationProperties(prefix = "spring.datasource")
```

```
    @Bean
```

```
    public DataSource druid(){
```

```
        return new DruidDataSource();
```

```
    }
```

```
//配置Druid监控
```

```
//1、配置一个管理后台的Servlet
```

```
@Bean
```

```
public ServletRegistrationBean statViewServlet(){
```

```
    ServletRegistrationBean<StatViewServlet> bean = new
```

```
ServletRegistrationBean<>(new StatViewServlet(), "/druid/*");
```

```
    Map<String,String> initParams = new HashMap<>();
```

```
    initParams.put("loginUsername","admin");
```

```
    initParams.put("loginPassword","123456");
```

```
    initParams.put("allow","");//默认允许所有
```

```
    initParams.put("deny","192.168.31.63");
```

```
    bean.setInitParameters(initParams);
```

```
    return bean;
```

```

    }
    //2、配置一个web监控的filter
    @Bean
    public FilterRegistrationBean webStatFilter(){
        FilterRegistrationBean<Filter> bean = new FilterRegistrationBean<>();
        bean.setFilter(new WebStatFilter());
        Map<String,String> initParams = new HashMap<>();
        initParams.put("exclusions", "*.js,*.css,/druid/*");
        bean.setInitParameters(initParams);
        bean.setUrlPatterns(Arrays.asList("/"));
        return bean;
    }
}

```

### • 3、整合MyBatis

```

<dependency>
    <groupId>org.mybatis.spring.boot</groupId>
    <artifactId>mybatis-spring-boot-starter</artifactId>
    <version>2.1.2</version>
</dependency>

```

#### ○ 步骤:

- 1)、配置数据源 (见2、Druid)
- 2)、给数据库建表
- 3)、创建JavaBean
- 4)、注解版

//指定这是一个操作数据库的mapper

//@Mapper

```

public interface DepartmentMapper {
    @Select("select * from department where id=#{id}")
    public Department getDeptById(Integer id);
    @Delete("delete from department where id=#{id}")
    public int deleteDeptId(Integer id);
    @Options(useGeneratedKeys = true,keyProperty = "id")
    @Insert("insert into department(departmentName)
values("#{departmentName})")
    public int insertDept(Department department);
    @Update("update department set
departmentName=#{departmentName} where id=#{id}")
    public int updDept(Department department);
    @Select("select * from department")
    public List<Department> getAllDepartments();
}

```

- 5)、配置文件版

mybatis:

configuration:

map-underscore-to-camel-case:true

指定全局配置文件的位置

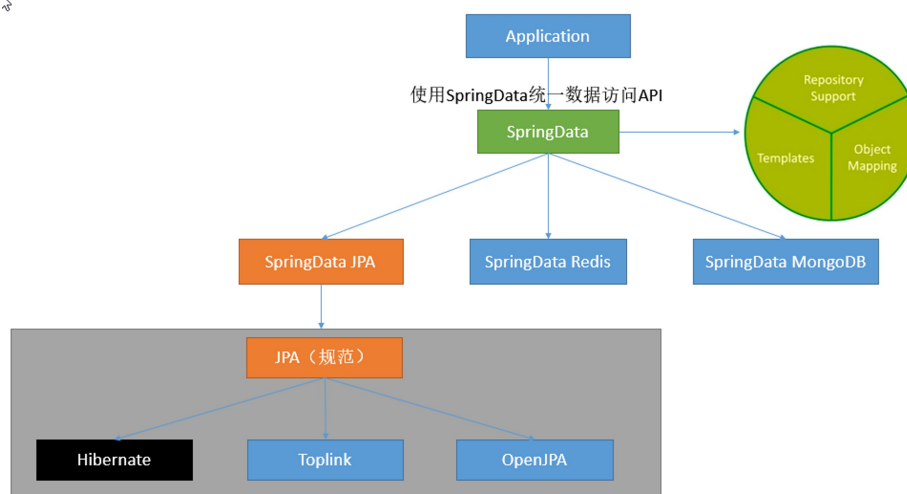
#config-location:classpath:mybatis/mybatis-config.xml

指定sql映射文件的位置

mapper-locations:classpath:mybatis/mapper/\*.xml

### • 4、整合SpringData JPA

## ○ 1)、SpringData简介



## ○ 2)、整合SpringData JPA

JPA:ORM (Object Relational Mapping) ;

- 1、编写一个实体类 (bean) 和数据表进行映射，并且配置好映射关系；  
//使用jpa注解配置映射关系  
@Entity//告诉jpa这是一个实体类 (和数据表映射的类)  
@Table(name = "tbl\_user")//@Table来指定哪个数据表对应；如果省略默认表名就是user；  
public class User {  
    @Id//这是一个主键  
    @GeneratedValue(strategy = GenerationType.IDENTITY)//自增主键  
    private Integer id;  
    @Column(name = "last\_name",length = 50)//这是和数据表对应的一个列  
    private String lastName;  
    @Column//省略默认列名就是属性名  
    private String email;  
}
- 2、编写一个Dao接口来操作实体类对应的数据表 (Repository)  
//继承jpaRepository来完成对数据库操作  
public interface UserRepository extends JpaRepository<User,Integer> {  
}
- 3、基本配置JpaProperties  
jpa:  
    hibernate:  
        #更新或者创建数据库表结构  
        ddl-auto:update  
        #控制台显示SQL  
        show-sql:true