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Spring+MyBatis实现读写分离四种实现方案整理

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Spring+MyBatis实现读写分离四种实现方案整理

方案1

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通过MyBatis配置文件创建读写分离两个DataSource,每个SqlSessionFactoryBean对象的mapperLocations属性制定两个读写数据源的配置文件。将所有读的操作配置在读文件中,所有写的操作配置在写文件中。

- 优点: 实现简单
- 缺点: 维护麻烦, 需要对原有的xml文件进行重新修改, 不支持多读, 不易扩展
- 实现方式

</bean>

</bean>

```
<bean id="writeDataSource" parent="abstractDataSource">
    <!-- 基本属性 url、user、password -->
    <property name="url" value="${write.jdbc.url}"/>
    <property name="username" value="${write.jdbc.user}"/>
    <property name="password" value="${write.jdbc.password}"/>
    <!-- 配置初始化大小、最小、最大 -->
    <property name="initialSize" value="${write.jdbc.initPoolSize}"/>
    <property name="minIdle" value="10"/>
    <property name="maxActive" value="${write.jdbc.maxPoolSize}"/>
```

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```
<!-- 实例化sqlSessionFactory时需要使用上述配置好的数据源以及SQL映射文件 -->
   cproperty name="dataSource" ref="writeDataSource"/>
   cproperty name="mapperLocations" value="classpath:mapper/write/*.xml"/>
</bean>
```

方案2

通过Spring AOP在业务层实现读写分离,在DAO层调用前定义切面,利用Spring的AbstractRoutingDataSour ce解决多数据源的问题,实现动态选择数据源



• 优点:通过注解的方法在DAO每个方法上配置数据源,原有代码改动量少,易扩展,支持多读



• 缺点:需要在DAO每个方法上配置注解,人工管理,容易出错

• 实现方式

```
//定义枚举类型,读写
public enum DynamicDataSourceGlobal {
            READ, WRITE;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
   * RUNTIME
   * 定义注解
   * 编译器将把注释记录在类文件中,在运行时 VM 将保留注释,因此可以反射性地读取。
   * @author shma1664
   */
@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.METHOD)
public @interface DataSource {
            public DynamicDataSourceGlobal value() default DynamicDataSourceGlobal.READ;
}
   * Created by IDEA
   * 本地线程设置和获取数据源信息
   * User: mashaohua
   * Date: 2016-07-07 13:35
   * Desc:
public class DynamicDataSourceHolder {
            \verb|private static final ThreadLocal < \verb|DynamicDataSourceGlobal| > \verb|holder = new ThreadLocal < DynamicDataSourceGlobal| > \verb|private static final ThreadLocal < DynamicDataSourceGlobal| > \verb|holder = new ThreadLocal < DynamicDataSourceGlobal| > \verb|private static final ThreadLocal < DynamicDataSourceGlobal| > \verb|holder = new ThreadLocal < DynamicDataSourceGlobal| > \verb|private static final ThreadLocal < DynamicDataSourceGlobal| > \verb|holder = new ThreadLocal < DynamicDataSourceGlobal| > \verb|private static final ThreadLocal < DynamicGataSourceGlobal| > DynamicGataSourceGloba
            public static void putDataSource(DynamicDataSourceGlobal dataSource){
                       holder.set(dataSource);
            public static DynamicDataSourceGlobal getDataSource(){
                       return holder.get();
            public static void clearDataSource() {
                       holder.remove();
}
import org.springframework.jdbc.datasource.lookup.AbstractRoutingDataSource;
```

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```
import java.util.Map;
   import java.util.concurrent.ThreadLocalRandom;
   import java.util.concurrent.atomic.AtomicLong;
   import java.util.concurrent.locks.Lock;
   import java.util.concurrent.locks.ReentrantLock;
   /**
* Created by IDEA
    * User: mashaohua
    * Date: 2016-07-14 10:56
    * Desc: 动态数据源实现读写分离
   public class DynamicDataSource extends AbstractRoutingDataSource {
       private Object writeDataSource; //写数据源
       private List<Object> readDataSources; //多个读数据源
       private int readDataSourceSize; //读数据源个数
       private int readDataSourcePollPattern = 0; //获取读数据源方式, 0: 随机, 1: 轮询
       private AtomicLong counter = new AtomicLong(0);
       private static final Long MAX POOL = Long.MAX VALUE;
       private final Lock lock = new ReentrantLock();
       @Override
       public void afterPropertiesSet() {
           if (this.writeDataSource == null) {
               throw new IllegalArgumentException("Property 'writeDataSource' is required");
          setDefaultTargetDataSource(writeDataSource);
          Map<Object, Object> targetDataSources = new HashMap<>();
          targetDataSources.put(DynamicDataSourceGlobal.WRITE.name(), writeDataSource);
          if (this.readDataSources == null) {
               readDataSourceSize = 0:
          } else {
               for(int i=0; i<readDataSources.size(); i++) {</pre>
                   targetDataSources.put(DynamicDataSourceGlobal.READ.name() + i, readDataSource
               readDataSourceSize = readDataSources.size();
           setTargetDataSources(targetDataSources);
          super.afterPropertiesSet();
       }
       @Override
       protected Object determineCurrentLookupKey() {
           DynamicDataSourceGlobal dynamicDataSourceGlobal = DynamicDataSourceHolder.getDataSour
           if(dynamicDataSourceGlobal == null
                   || dynamicDataSourceGlobal == DynamicDataSourceGlobal.WRITE
                   || readDataSourceSize <= 0) {</pre>
               return DynamicDataSourceGlobal.WRITE.name();
          int index = 1;
           if(readDataSourcePollPattern == 1) {
               long currValue = counter.incrementAndGet();
               if((currValue + 1) >= MAX POOL) {
                   try {
                       lock.lock();
                       if((currValue + 1) >= MAX_POOL) {
                           countor act (A).
```

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```
lock.unlock();
                   }
               index = (int) (currValue % readDataSourceSize);
           } else {
               //随机方式
               index = ThreadLocalRandom.current().nextInt(0, readDataSourceSize);
ß
           return dynamicDataSourceGlobal.name() + index;
       public void setWriteDataSource(Object writeDataSource) {
           this.writeDataSource = writeDataSource;
···
       public void setReadDataSources(List<Object> readDataSources) {
           this.readDataSources = readDataSources;
       public void setReadDataSourcePollPattern(int readDataSourcePollPattern) {
           this.readDataSourcePollPattern = readDataSourcePollPattern;
       }
   }
   import org.apache.log4i.Logger:
   import org.aspectj.lang.JoinPoint;
   import org.aspectj.lang.reflect.MethodSignature;
   import java.lang.reflect.Method;
   /**
    * Created by IDEA
    * User: mashaohua
    * Date: 2016-07-07 13:39
    * Desc: 定义选择数据源切面
   public class DynamicDataSourceAspect {
       private static final Logger logger = Logger.getLogger(DynamicDataSourceAspect.class);
       public void pointCut(){};
       public void before(JoinPoint point)
           Object target = point.getTarget();
           String methodName = point.getSignature().getName();
           Class<?>[] clazz = target.getClass().getInterfaces();
           Class<?>[] parameterTypes = ((MethodSignature) point.getSignature()).getMethod().getP
           try {
               Method method = clazz[0].getMethod(methodName, parameterTypes);
               if (method != null && method.isAnnotationPresent(DataSource.class)) {
                   DataSource data = method.getAnnotation(DataSource.class);
                   DynamicDataSourceHolder.putDataSource(data.value());
               }
           } catch (Exception e) {
               logger.error(String.format("Choose DataSource error, method:%s, msg:%s", methodNa
       }
       public void after(JoinPoint point) {
           DynamicDataSourceHolder.clearDataSource();
       }
   }
   <?xml version="1.0" encoding="UTF-8"?>
   <beans xmlns="http://www.springframework.org/schema/beans"</pre>
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```



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```
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  xsi:schemaLocation="http://www.springframework.org/schema/beans
  http://www.springframework.org/schema/beans/spring-beans-4.1.xsd
  http://www.springframework.org/schema/tx
  http://www.springframework.org/schema/tx/spring-tx-4.1.xsd
  http://www.springframework.org/schema/aop
  http://www.springframework.org/schema/aop/spring-aop-4.1.xsd">
<bean id="abstractDataSource" abstract="true" class="com.alibaba.druid.pool.DruidDataSour</pre>
   <!-- 配置获取连接等待超时的时间 -->
   cproperty name="maxWait" value="60000"/>
   <!-- 配置间隔多久才进行一次检测,检测需要关闭的空闲连接,单位是毫秒 -->
   cproperty name="timeBetweenEvictionRunsMillis" value="60000"/>
   <!-- 配置一个连接在池中最小生存的时间,单位是毫秒 -->
   cproperty name="minEvictableIdleTimeMillis" value="300000"/>
   cproperty name="validationQuery" value="SELECT 'x'"/>
   cproperty name="testWhileIdle" value="true"/>
   cproperty name="testOnBorrow" value="false"/>
   cproperty name="testOnReturn" value="false"/>
   <!-- 打开PSCache,并且指定每个连接上PSCache的大小 -->
   cproperty name="poolPreparedStatements" value="true"/>
   cproperty name="maxPoolPreparedStatementPerConnectionSize" value="20"/>
   cproperty name="filters" value="config"/>
   connectionProperties value="config.decrypt=true" />
</bean>
<bean id="dataSourceRead1" parent="abstractDataSource">
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${read1.jdbc.url}"/>
   cproperty name="username" value="${read1.jdbc.user}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="initialSize" value="${read1.jdbc.initPoolSize}"/>
   cproperty name="minIdle" value="${read1.jdbc.minPoolSize}"/>
   cproperty name="maxActive" value="${read1.jdbc.maxPoolSize}"/>
</bean>
<bean id="dataSourceRead2" parent="abstractDataSource">
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${read2.jdbc.url}"/>
   cproperty name="username" value="${read2.jdbc.user}"/>
   cproperty name="password" value="${read2.jdbc.password}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="initialSize" value="${read2.jdbc.initPoolSize}"/>
   cproperty name="minIdle" value="${read2.jdbc.minPoolSize}"/>
   cproperty name="maxActive" value="${read2.jdbc.maxPoolSize}"/>
</bean>
<bean id="dataSourceWrite" parent="abstractDataSource">
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${write.jdbc.url}"/>
   cproperty name="username" value="${write.jdbc.user}"/>
   cproperty name="password" value="${write.jdbc.password}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="initialSize" value="${write.jdbc.initPoolSize}"/>
   cproperty name="minIdle" value="${write.jdbc.minPoolSize}"/>
   cproperty name="maxActive" value="${write.jdbc.maxPoolSize}"/>
</bean>
<bean id="dataSource" class="com.test.api.dao.datasource.DynamicDataSource">
   cproperty name="writeDataSource" ref="dataSourceWrite" />
   property name="readDataSources">
      st>
          <ref bean="dataSourceRead1" />
          <ref bean="dataSourceRead2" />
```

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```
cproperty name="readDataSourcePollPattern" value="1" />
       cproperty name="defaultTargetDataSource" ref="dataSourceWrite"/>
   <tx:annotation-driven transaction-manager="transactionManager"/>
   property name="dataSource" ref="dataSource"/>
   </hean>
   <!-- 针对myBatis的配置项 -->
   <!-- 配置sqlSessionFactory -->
   <bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
       <!-- 实例化sqlSessionFactory时需要使用上述配置好的数据源以及SQL映射文件 -->
       cproperty name="dataSource" ref="dataSource"/>
       cproperty name="mapperLocations" value="classpath:mapper/*.xml"/>
   </bean>
   <!-- 配置扫描器 -->
   <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
       <!-- 扫描包以及它的子包下的所有映射接口类 -->
       cproperty name="basePackage" value="com.test.api.dao.inte"/>
       cproperty name="sqlSessionFactoryBeanName" value="sqlSessionFactory"/>
   </bean>
   <!-- 配置数据库注解aop -->
   <bean id="dynamicDataSourceAspect" class="com.test.api.dao.datasource.DynamicDataSourceAs</pre>
       <aop:aspect id="c" ref="dynamicDataSourceAspect">
          <aop:pointcut id="tx" expression="execution(* com.test.api.dao.inte..*.*(..))"/>
          <aop:before pointcut-ref="tx" method="before"/>
          <aop:after pointcut-ref="tx" method="after"/>
       </aop:aspect>
   </aop:config>
   <!-- 配置数据库注解aop -->
</heans>
```

方案3

通过Mybatis的Plugin在业务层实现数据库读写分离,在MyBatis创建Statement对象前通过拦截器选择真正的数据源,在拦截器中根据方法名称不同(select、update、insert、delete)选择数据源。

- 优点: 原有代码不变, 支持多读, 易扩展
- 缺点:
- 实现方式

```
/**

* Created by IDEA

* User: mashaohua

* Date: 2016-07-19 15:40

* Desc: 创建Connection代理接口

*/
public interface ConnectionProxy extends Connection {

/**

* 根据传入的读写分离需要的key路由到正确的connection

* @param key 数据源标识

* @return

*/
Connection getTargetConnection(String key);
}

import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
```

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```
import java.util.List;
   import java.util.logging.Logger;
   import javax.sql.DataSource;
   import org.springframework.beans.factory.InitializingBean;
   import org.springframework.jdbc.datasource.AbstractDataSource;
import org.springframework.jdbc.datasource.lookup.DataSourceLookup;
   \verb|import| org.springframework.jdbc.datasource.lookup.JndiDataSourceLookup;|
   import org.springframework.util.Assert;
   public abstract class AbstractDynamicDataSourceProxy extends AbstractDataSource implements In
       private List<Object> readDataSources;
       private List<DataSource> resolvedReadDataSources;
       private Object writeDataSource;
       private DataSource resolvedWriteDataSource;
       private int readDataSourcePollPattern = 0;
       private int readDsSize;
       private boolean defaultAutoCommit = true;
       private int defaultTransactionIsolation = Connection.TRANSACTION READ COMMITTED;
       public static final String READ = "read";
       public static final String WRITE = "write";
       private DataSourceLookup dataSourceLookup = new JndiDataSourceLookup();
       @Override
       public Connection getConnection() throws SQLException {
           return (Connection) Proxy.newProxyInstance(
                   com.autohome.api.dealer.tuan.dao.rwmybatis.ConnectionProxy.class.getClassLoad
                   new Class[] {com.autohome.api.dealer.tuan.dao.rwmybatis.ConnectionProxy.class
                   new RWConnectionInvocationHandler()):
       }
       @Override
       public Connection getConnection(String username, String password)
               throws SOLException {
           return (Connection) Proxy.newProxyInstance(
                   com.autohome.api.dealer.tuan.dao.rwmybatis.ConnectionProxy.class.getClassLoad
                   new Class[] {com.autohome.api.dealer.tuan.dao.rwmybatis.ConnectionProxy.class
                   new RWConnectionInvocationHandler(username,password));
       }
       public int getReadDsSize(){
           return readDsSize;
       public List<DataSource> getResolvedReadDataSources() {
           return resolvedReadDataSources;
       public void afterPropertiesSet() throws Exception {
           if(writeDataSource == null){
               throw new IllegalArgumentException("Property 'writeDataSource' is required");
           this.resolvedWriteDataSource = resolveSpecifiedDataSource(writeDataSource);
           resolvedReadDataSources = new ArrayList<DataSource>(readDataSources.size());
           for(Object item : readDataSources){
               resolvedReadDataSources.add(resolveSpecifiedDataSource(item));
           roadDagino - roadDatagouraca sino().
```



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```
protected DataSource determineTargetDataSource(String key) {
   Assert.notNull(this.resolvedReadDataSources, "DataSource router not initialized");
    if(WRITE.equals(key)){
        return resolvedWriteDataSource;
    }else{
        return loadReadDataSource();
}
public Logger getParentLogger() {
   // NOOP Just ignore
   return null:
/**
* 获取真实的data source
 * @param dataSource (jndi | real data source)
 * @throws IllegalArgumentException
 */
\verb|protected DataSource resolveSpecifiedDataSource(Object dataSource)| throws IllegalArgument| \\
   if (dataSource instanceof DataSource) {
        return (DataSource) dataSource;
   else if (dataSource instanceof String) {
        return this.dataSourceLookup.getDataSource((String) dataSource);
   }
    else {
        throw new IllegalArgumentException(
                "Illegal data source value - only [javax.sql.DataSource] and String suppo
}
protected abstract DataSource loadReadDataSource();
public void setReadDsSize(int readDsSize) {
   this.readDsSize = readDsSize;
public List<Object> getReadDataSources() {
   return readDataSources;
public void setReadDataSources(List<Object> readDataSources) {
   this.readDataSources = readDataSources;
public Object getWriteDataSource() {
   return writeDataSource;
public void setWriteDataSource(Object writeDataSource) {
   this.writeDataSource = writeDataSource;
public void setResolvedReadDataSources(List<DataSource> resolvedReadDataSources) {
    this.resolvedReadDataSources = resolvedReadDataSources;
public DataSource getResolvedWriteDataSource() {
   return resolvedWriteDataSource;
public void setResolvedWriteDataSource(DataSource resolvedWriteDataSource) {
   this.resolvedWriteDataSource = resolvedWriteDataSource;
public int getReadDataSourcePollPattern() {
   roturn roadDataCouracDollDattorn.
```

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```
public void setReadDataSourcePollPattern(int readDataSourcePollPattern) {
   this.readDataSourcePollPattern = readDataSourcePollPattern;
/**
* Invocation handler that defers fetching an actual JDBC Connection
 * until first creation of a Statement.
private class RWConnectionInvocationHandler implements InvocationHandler {
   private String username:
   private String password;
   private Boolean readOnly = Boolean.FALSE;
   private Integer transactionIsolation;
   private Boolean autoCommit;
   private boolean closed = false;
   private Connection target:
   public RWConnectionInvocationHandler() {
   public RWConnectionInvocationHandler(String username, String password) {
        this.username = username;
        this.password = password;
   public Object invoke(Object proxy, Method method, Object[] args) throws Throwable {
        // Invocation on ConnectionProxy interface coming in...
        if (method.getName().equals("equals")) {
           // We must avoid fetching a target Connection for "equals".
            // Only consider equal when proxies are identical.
           return (proxy == args[0] ? Boolean.TRUE : Boolean.FALSE);
        else if (method.getName().equals("hashCode")) {
            // We must avoid fetching a target Connection for "hashCode",
            // and we must return the same hash code even when the target
           // Connection has been fetched: use hashCode of Connection proxy.
           return new Integer(System.identityHashCode(proxy));
        else if (method.getName().equals("getTargetConnection")) {
            // Handle getTargetConnection method: return underlying connection.
           return getTargetConnection(method, args);
        if (!hasTargetConnection()) {
            // No physical target Connection kept yet ->
            // resolve transaction demarcation methods without fetching
            // a physical JDBC Connection until absolutely necessary.
           if (method.getName().equals("toString")) {
                return "RW Routing DataSource Proxy";
           else if (method.getName().equals("isReadOnly")) {
                return this.readOnly;
           else if (method.getName().equals("setReadOnly")) {
                this.readOnly = (Boolean) args[0];
                return null;
            also if (mathod satNama() assals/"satEmpanasationTablation")) [
```

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```
}
            return defaultTransactionIsolation:
            // Else fetch actual Connection and check there,
            // because we didn't have a default specified.
        else if (method.getName().equals("setTransactionIsolation")) {
            this.transactionIsolation = (Integer) args[0];
            return null:
        else if (method.getName().equals("getAutoCommit")) {
            if (this.autoCommit != null)
                return this.autoCommit:
            return defaultAutoCommit;
            // Else fetch actual Connection and check there,
            // because we didn't have a default specified.
        else if (method.getName().equals("setAutoCommit")) {
            this.autoCommit = (Boolean) args[0];
            return null;
        }
        else if (method.getName().equals("commit")) {
            // Ignore: no statements created yet.
            return null;
        else if (method.getName().equals("rollback")) {
            // Ignore: no statements created yet.
            return null;
        else if (method.getName().equals("getWarnings")) {
            return null;
        else if (method.getName().equals("clearWarnings")) {
            return null:
        else if (method.getName().equals("isClosed")) {
            return (this.closed ? Boolean.TRUE : Boolean.FALSE);
        else if (method.getName().equals("close")) {
            // Ignore: no target connection yet.
            this.closed = true;
            return null;
        else if (this.closed) {
            // Connection proxy closed, without ever having fetched a
            // physical JDBC Connection: throw corresponding SQLException.
            throw new SQLException("Illegal operation: connection is closed");
        }
    }
    // Target Connection already fetched,
    // or target Connection necessary for current operation ->
    // invoke method on target connection.
    try {
        return method.invoke(target, args);
    catch (InvocationTargetException ex) {
        throw ex.getTargetException();
 * Return whether the proxy currently holds a target Connection.
private boolean hasTargetConnection() {
   return (this.target != null);
 + Dotum the target Connection forthing it and initializing it if management
```



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}

```
if (this.target == null) {
                String key = (String) args[0];
                // No target Connection held -> fetch one.
                if (logger.isDebugEnabled()) {
                    logger.debug("Connecting to database for operation '" + operation.getName
                // Fetch physical Connection from DataSource.
                this.target = (this.username != null) ?
                        determineTargetDataSource(key).getConnection(this.username, this.pass
                        determineTargetDataSource(key).getConnection();
                // If we still lack default connection properties, check them now.
                //checkDefaultConnectionProperties(this.target);
                // Apply kept transaction settings, if any.
                if (this.readOnly.booleanValue()) {
                    this.target.setReadOnly(this.readOnly.booleanValue());
                if (this.transactionIsolation != null) {
                    this.target.setTransactionIsolation(this.transactionIsolation.intValue())
                }
                if (this.autoCommit != null && this.autoCommit.booleanValue() != this.target.
                    this.target.setAutoCommit(this.autoCommit.booleanValue());
            }
            else {
                // Target Connection already held -> return it.
                if (logger.isDebugEnabled()) {
                    logger.debug("Using existing database connection for operation '" + opera
            return this.target:
       }
    }
}
import javax.sql.DataSource;
import java.util.concurrent.ThreadLocalRandom;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReentrantLock;
 * Created by IDEA
 * User: mashaohua
 * Date: 2016-07-19 16:04
 * Desc:
 */
public class DynamicRoutingDataSourceProxy extends AbstractDynamicDataSourceProxy {
    private AtomicLong counter = new AtomicLong(0);
    private static final Long MAX_POOL = Long.MAX_VALUE;
    private final Lock lock = new ReentrantLock();
    @Override
    protected DataSource loadReadDataSource() {
        int index = 1:
        if(getReadDataSourcePollPattern() == 1) {
            long currValue = counter.incrementAndGet();
```



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```
lock.lock();
                       if((currValue + 1) >= MAX_POOL) {
                           counter.set(0);
                   } finally {
                       lock.unlock();
ß
               }
               index = (int) (currValue % getReadDsSize());
           } else {
               //随机方式
               index = ThreadLocalRandom.current().nextInt(0, getReadDsSize());
···
           return getResolvedReadDataSources().get(index);
       }
   }
   import org.apache.ibatis.executor.statement.RoutingStatementHandler;
   import org.apache.ibatis.executor.statement.StatementHandler;
   import org.apache.ibatis.mapping.MappedStatement;
   import org.apache.ibatis.mapping.SqlCommandType;
   import org.apache.ibatis.plugin.*;
   import java.sql.Connection;
   import java.util.Properties:
    * 拦截器
    */
   @Intercepts({    @Signature(type = StatementHandler.class, method = "prepare", args = {    Connecti
   public class DynamicPlugin implements Interceptor {
       public Object intercept(Invocation invocation) throws Throwable {
           Connection conn = (Connection)invocation.getArgs()[0];
           //如果是采用了我们代理,则路由数据源
           if(conn instanceof com.autohome.api.dealer.tuan.dao.rwmybatis.ConnectionProxy){
               StatementHandler statementHandler = (StatementHandler) invocation
                       .getTarget();
               MappedStatement mappedStatement = null;
               if (statementHandler instanceof RoutingStatementHandler) {
                   StatementHandler delegate = (StatementHandler) ReflectionUtils
                           .getFieldValue(statementHandler, "delegate");
                   mappedStatement = (MappedStatement) ReflectionUtils.getFieldValue(
                           delegate, "mappedStatement");
                   mappedStatement = (MappedStatement) ReflectionUtils.getFieldValue(
                           statementHandler, "mappedStatement");
               String key = AbstractDynamicDataSourceProxy.WRITE;
               if(mappedStatement.getSqlCommandType() == SqlCommandType.SELECT){
                   kev = AbstractDvnamicDataSourceProxv.READ;
               }else{
                   key = AbstractDynamicDataSourceProxy.WRITE;
               ConnectionProxy connectionProxy = (ConnectionProxy)conn;
               connectionProxy.getTargetConnection(key);
           }
           return invocation.proceed();
       }
         111 011 1 1 1 1011 1 1 1 1
```



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```
}
       public void setProperties(Properties properties) {
          //NOOP
       }
(5)
   import org.apache.ibatis.logging.Log;
import org.apache.ibatis.logging.LogFactory;
import java.lang.reflect.*;
   public class ReflectionUtils {
       private static final Log logger = LogFactory.getLog(ReflectionUtils.class);
       * 直接设置对象属性值,无视private/protected修饰符,不经过setter函数.
       public static void setFieldValue(final Object object, final String fieldName, final Objec
          Field field = getDeclaredField(object, fieldName);
          if (field == null)
               throw new IllegalArgumentException("Could not find field [" + fieldName + "] on t
          makeAccessible(field);
               field.set(object, value);
          } catch (IllegalAccessException e) {
       }
        * 直接读取对象属性值,无视private/protected修饰符,不经过getter函数.
       public static Object qetFieldValue(final Object object, final String fieldName) {
          Field field = getDeclaredField(object, fieldName);
           if (field == null)
               throw new IllegalArgumentException("Could not find field [" + fieldName + "] on t
          makeAccessible(field);
          Object result = null;
          trv {
              result = field.get(object);
          } catch (IllegalAccessException e) {
          }
          return result;
       }
        * 直接调用对象方法,无视private/protected修饰符.
       public static Object invokeMethod(final Object object, final String methodName, final Cla
               final Object[] parameters) throws InvocationTargetException {
          Method method = getDeclaredMethod(object, methodName, parameterTypes);
          if (method == null)
               throw new IllegalArgumentException("Could not find method [" + methodName + "] on
          method.setAccessible(true);
```



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```
return null;
}
/**
* 循环向上转型,获取对象的DeclaredField.
protected static Field getDeclaredField(final Object object, final String fieldName) {
   for (Class<?> superClass = object.getClass(); superClass != Object.class; superClass
           .getSuperclass()) {
       try {
           return superClass.getDeclaredField(fieldName);
       } catch (NoSuchFieldException e) {
   }
   return null;
}
/**
 * 循环向上转型,获取对象的DeclaredField.
protected static void makeAccessible(final Field field) {
   if (!Modifier.isPublic(field.getModifiers()) || !Modifier.isPublic(field.getDeclaring
       field.setAccessible(true);
}
/**
* 循环向上转型,获取对象的DeclaredMethod.
protected static Method getDeclaredMethod(Object object, String methodName, Class<?>[] pa
   for (Class<?> superClass = object.getClass(); superClass != Object.class; superClass
           .getSuperclass()) {
       trv {
           return superClass.getDeclaredMethod(methodName, parameterTypes);
       } catch (NoSuchMethodException e) {
   }
   return null;
}
* 通过反射,获得Class定义中声明的父类的泛型参数的类型.
 * public UserDao extends HibernateDao<User>
* @param clazz The class to introspect
 * @return the first generic declaration, or Object.class if cannot be determined
@SuppressWarnings("unchecked")
public static <T> Class<T> getSuperClassGenricType(final Class clazz) {
   return getSuperClassGenricType(clazz, 0);
/**
* 通过反射,获得Class定义中声明的父类的泛型参数的类型.
 * public UserDao extends HibernateDao<User>
 * @param clazz The class to introspect
 \star @return the first generic declaration, or Object.class if cannot be determined
 */
@SuppressWarnings("unchecked")
public static Class getSuperClassGenricType(final Class clazz, final int index) {
   Muno confluenc - alorg co+ConomicCunomalogg().
```

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```
logger.warn(clazz.getSimpleName() + "'s superclass not ParameterizedType");
              return Object.class:
          Type[] params = ((ParameterizedType) genType).getActualTypeArguments();
          if (index >= params.length || index < 0) {
              logger.warn("Index: " + index + ", Size of " + clazz.getSimpleName() + "'s Parame
\Gamma
                     + params.length);
              return Object.class:
          if (!(params[index] instanceof Class)) {
              logger.warn(clazz.getSimpleName() + " not set the actual class on superclass gene
···
              return Object.class;
          }
          return (Class) params[index];
      }
      /**
       * 将反射时的checked exception转换为unchecked exception.
      public static IllegalArgumentException convertToUncheckedException(Exception e) {
          if (e instanceof IllegalAccessException || e instanceof IllegalArgumentException
                  | e instanceof NoSuchMethodException)
              return new IllegalArgumentException("Refelction Exception.", e);
          else
              return new IllegalArgumentException(e);
      }
   }
   <?xml version="1.0" encoding="UTF-8"?>
   <!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD SQL Map Config 3.0//EN"</pre>
      "http://mybatis.org/dtd/mybatis-3-config.dtd">
   <configuration>
      <plugins>
          <plugin interceptor="com.test.api.dao.mybatis.DynamicPlugin">
          </plugin>
      </plugins>
   </configuration>
   <?xml version="1.0" encoding="UTF-8"?>
   <beans xmlns="http://www.springframework.org/schema/beans"</pre>
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns:tx="http://www.springframework.org/schema/tx"
         xmlns:aop="http://www.springframework.org/schema/aop"
         xsi:schemaLocation="http://www.springframework.org/schema/beans
         http://www.springframework.org/schema/beans/spring-beans-4.1.xsd
         http://www.springframework.org/schema/tx
         http://www.springframework.org/schema/tx/spring-tx-4.1.xsd
         http://www.springframework.org/schema/aop
         http://www.springframework.org/schema/aop/spring-aop-4.1.xsd">
      <bean id="abstractDataSource" abstract="true" class="com.alibaba.druid.pool.DruidDataSour</pre>
          <!-- 配置获取连接等待超时的时间 -->
          cproperty name="maxWait" value="60000"/>
          <!-- 配置间隔多久才进行一次检测,检测需要关闭的空闲连接,单位是毫秒 -->
          <!-- 配置一个连接在池中最小生存的时间,单位是毫秒 -->
          property name="minEvictableIdleTimeMillis" value="300000"/>
          cproperty name="validationQuery" value="SELECT 'x'"/>
          roperty name="testWhileIdle" value="true"/>
          cproperty name="testOnBorrow" value="false"/>
          property name="testOnReturn" value="false"/>
          <!-- 打开PSCache,并且指定每个连接上PSCache的大小 -->
          <nronertv name="noolPrenaredStatements" value="true"/>
```



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```
connectionProperties value="config.decrypt=true" />
</bean>
<bean id="dataSourceRead1" parent="abstractDataSource">
   operty name="driverClassName" value="com.microsoft.sqlserver.jdbc.SQLServerDriver"
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${read1.jdbc.url}"/>
   cproperty name="username" value="${read1.jdbc.user}"/>
   cproperty name="password" value="${read1.jdbc.password}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="initialSize" value="${read1.jdbc.initPoolSize}"/>
   cproperty name="minIdle" value="${read1.jdbc.minPoolSize}"/>
   cproperty name="maxActive" value="${read1.jdbc.maxPoolSize}"/>
<bean id="dataSourceRead2" parent="abstractDataSource">
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${read2.jdbc.url}"/>
   cproperty name="username" value="${read2.jdbc.user}"/>
   cproperty name="password" value="${read2.jdbc.password}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="initialSize" value="${read2.jdbc.initPoolSize}"/>
   cproperty name="minIdle" value="${read2.jdbc.minPoolSize}"/>
   cyroperty name="maxActive" value="${read2.jdbc.maxPoolSize}"/>
</bean>
<bean id="dataSourceWrite" parent="abstractDataSource">
   <!-- 基本属性 url、user、password -->
   cproperty name="url" value="${write.jdbc.url}"/>
   cproperty name="username" value="${write.jdbc.user}"/>
   <!-- 配置初始化大小、最小、最大 -->
   cproperty name="minIdle" value="${write.jdbc.minPoolSize}"/>
   </bean>
<bean id="dataSource" class="com.test.api.dao.datasource.DynamicRoutingDataSourceProxy">
   cproperty name="writeDataSource" ref="dataSourceWrite" />
   property name="readDataSources">
      st>
          <ref bean="dataSourceRead1" />
          <ref bean="dataSourceRead2" />
      </list>
   </property>
   <!--轮询方式-->
   cproperty name="readDataSourcePollPattern" value="1" />
</bean>
<tx:annotation-driven transaction-manager="transactionManager"/>
<bean id="transactionManager" class="org.springframework.jdbc.datasource.DataSourceTransa</pre>
   cproperty name="dataSource" ref="dataSource"/>
</bean>
<!-- 针对myBatis的配置项 -->
<!-- 配置sqlSessionFactory -->
<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
   <!-- 实例化sqlSessionFactory时需要使用上述配置好的数据源以及SQL映射文件 -->
   cproperty name="dataSource" ref="dataSource"/>
   cproperty name="mapperLocations" value="classpath:mapper/*.xml"/>
   <property name="configLocation" value="classpath:mybatis-plugin-config.xml" />
</bean>
<bean id="sqlSessionTemplate" class="org.mybatis.spring.SqlSessionTemplate">
   <constructor-arg ref="sqlSessionFactory" />
/haan
```

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```
cproperty name="basePackage" value="com.test.api.dao.inte" />
       cproperty name="sqlSessionTemplate" ref="sqlSessionTemplate">
</beans>
```

方案4

如果你的后台结构是spring+mybatis,可以通过spring的AbstractRoutingDataSource和mybatis Plugin拦截器 实现非常友好的读写分离,原有代码不需要任何改变。推荐第四种方案

```
import\ org.springframework.jdbc.datasource.lookup.AbstractRoutingDataSource;\\
import java.util.HashMap;
```

```
import java.util.Map;
   * Created by IDEA
   * User: mashaohua
   * Date: 2016-07-14 10:56
   * Desc: 动态数据源实现读写分离
  */
public class DynamicDataSource extends AbstractRoutingDataSource {
          private Object writeDataSource; //写数据源
          private Object readDataSource; //读数据源
          @Override
          public void afterPropertiesSet() {
                    if (this.writeDataSource == null) {
                              throw new IllegalArgumentException("Property 'writeDataSource' is required");
                    setDefaultTargetDataSource(writeDataSource);
                   Map<Object, Object> targetDataSources = new HashMap<>();
                    targetDataSources.put(DynamicDataSourceGlobal.WRITE.name(), writeDataSource);
                    if(readDataSource != null) {
                              targetDataSources.put(DynamicDataSourceGlobal.READ.name(), readDataSource);
                   setTargetDataSources(targetDataSources);
                    super.afterPropertiesSet();
          }
          @Override
          protected Object determineCurrentLookupKey() {
                    DynamicDataSourceGlobal dynamicDataSourceGlobal = DynamicDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourceHolder.getDataSourc
                    if(dynamicDataSourceGlobal == null
                                       || dynamicDataSourceGlobal == DynamicDataSourceGlobal.WRITE) {
                              return DynamicDataSourceGlobal.WRITE.name();
                   }
                   return DynamicDataSourceGlobal.READ.name();
          }
          public void setWriteDataSource(Object writeDataSource) {
                    this.writeDataSource = writeDataSource;
          public Object getWriteDataSource() {
                    return writeDataSource;
          public Object getReadDataSource() {
                   return readDataSource;
```

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```
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```

```
}
   /**
    * Created by IDEA
    * User: mashaohua
   * Date: 2016-07-14 10:58
    * Desc:
   public enum DynamicDataSourceGlobal {
       READ, WRITE;
   }
···
   public final class DynamicDataSourceHolder {
       private static final ThreadLocal<DynamicDataSourceGlobal> holder = new ThreadLocal<Dynami
       private DynamicDataSourceHolder() {
           //
       public static void putDataSource(DynamicDataSourceGlobal dataSource){
           holder.set(dataSource);
       public static DynamicDataSourceGlobal getDataSource(){
           return holder.get();
       public static void clearDataSource() {
           holder.remove();
       }
   }
   import\ org. spring framework. jdbc. data source. Data Source Transaction Manager;
   import org.springframework.transaction.TransactionDefinition;
    * Created by IDEA
    * User: mashaohua
    * Date: 2016-08-10 14:34
    * Desc:
   public class DynamicDataSourceTransactionManager extends DataSourceTransactionManager {
        * 只读事务到读库,读写事务到写库
        * @param transaction
        * @param definition
        */
       @Override
       protected void doBegin(Object transaction, TransactionDefinition definition) {
           //设置数据源
           boolean readOnly = definition.isReadOnly();
           if(readOnly) {
               DynamicDataSourceHolder.putDataSource(DynamicDataSourceGlobal.READ);
           } else {
               DynamicDataSourceHolder.putDataSource(DynamicDataSourceGlobal.WRITE);
           super.doBegin(transaction, definition);
       }
        * 清理本地线程的数据源
        * @param transaction
```



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```
protected void doCleanupAfterCompletion(Object transaction) {
        super.doCleanupAfterCompletion(transaction);
       DynamicDataSourceHolder.clearDataSource();
   }
}
import org.apache.ibatis.executor.Executor;
import org.apache.ibatis.executor.keygen.SelectKeyGenerator;
import org.apache.ibatis.mapping.BoundSql;
import org.apache.ibatis.mapping.MappedStatement;
import org.apache.ibatis.mapping.SqlCommandType;
import org.apache.ibatis.plugin.*;
import org.apache.ibatis.session.ResultHandler;
import org.apache.ibatis.session.RowBounds;
import org.slf4i.Logger:
import org.slf4i.LoggerFactory:
import org.springframework.transaction.support.TransactionSynchronizationManager;
import java.util.Locale;
import java.util.Map;
import java.util.Properties;
import java.util.concurrent.ConcurrentHashMap;
 * Created by IDEA
 * User: mashaohua
 * Date: 2016-08-10 11:09
 * Desc:
@Intercepts({
@Signature(type = Executor.class, method = "update", args = {
       MappedStatement.class, Object.class }),
@Signature(type = Executor.class, method = "query", args = {
       MappedStatement.class, Object.class, RowBounds.class,
       ResultHandler.class }) })
public class DynamicPlugin implements Interceptor {
   protected static final Logger logger = LoggerFactory.getLogger(DynamicPlugin.class);
   private static final String REGEX = ".*insert\\u0020.*|.*delete\\u0020.*|.*update\\u0020.
   private static final Map<String, DynamicDataSourceGlobal> cacheMap = new ConcurrentHashMa
   @Override
   public Object intercept(Invocation invocation) throws Throwable {
       boolean synchronizationActive = TransactionSynchronizationManager.isSynchronizationAc
       if(!synchronizationActive) {
            Object[] objects = invocation.getArgs();
            MappedStatement ms = (MappedStatement) objects[0];
            DynamicDataSourceGlobal dynamicDataSourceGlobal = null;
            if((dynamicDataSourceGlobal = cacheMap.get(ms.getId())) == null) {
                //读方法
                if(ms.getSqlCommandType().equals(SqlCommandType.SELECT)) {
                    //!selectKey 为自增id查询主键(SELECT LAST INSERT ID() )方法,使用主库
                    if(ms.getId().contains(SelectKeyGenerator.SELECT_KEY_SUFFIX)) {
                        dynamicDataSourceGlobal = DynamicDataSourceGlobal.WRITE;
                        BoundSql boundSql = ms.getSqlSource().getBoundSql(objects[1]);
                        String sql = boundSql.getSql().toLowerCase(Locale.CHINA).replaceAll("
                        if(sql.matches(REGEX)) {
                            dynamicDataSourceGlobal = DynamicDataSourceGlobal.WRITE;
                        } else {
                            dynamicDataSourceGlobal = DynamicDataSourceGlobal.READ;
                        }
                    }
```



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```
logger.warn("设置方法[{}] use [{}] Strategy, SqlCommandType [{}]..", ms.getId(
                   cacheMap.put(ms.getId(), dynamicDataSourceGlobal);
               DynamicDataSourceHolder.putDataSource(dynamicDataSourceGlobal);
           }
           return invocation.proceed();
ß
       @Override
       public Object plugin(Object target) {
           if (target instanceof Executor) {
6
               return Plugin.wrap(target, this);
           } else {
               return target;
       }
       @Override
       public void setProperties(Properties properties) {
   }
```

看 Python 如何诠释"薪"时代

Python全栈开发包含Python爬虫、前端、网站后台、Python机器学习与数据挖掘等, 从0基础小白到Python 企业级web开发达人、自动化运维开发能手的进击,课程真实 企业项目实战演练,全面系统学习python编程语言,从容应对企业中各式各样的......

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您好,能否请教下方案四中的spring如何配置多个数据源,就是一个写库,多个读库

MyBatis多数据源配置(读写分离)



(A) isea533 2015年07月09日 13:45 🚇 57682

MvBatis多数据源配置(读写分离)首先说明,本文的配置使用的最直接的方式,实际用起来可能会很麻烦。实际应用中可能存在多 种结合的情况,你可以理解本文的含义,不要死板的使用。多数据源的可能情况1.主从...

Spring+Mybatis透明实现读写分离



(配) johnstrive 2016年09月20日 16:58 🕮 1835

背景网上有好多读写分离的实践,所应对的业务场景也不一样,本方法主要是应对中小型互联网产品的读写分离。数据库环境: 1 台master; 2台slaver适用框架: spring+mybatis操作数据库的简单...

spring boot学习7之mybatis+mysql读写分离(一写多读)+事务

当业务的访问量(数据库的查询)非常大时,为了降低数据库的压力,希望有多个数据库进行负载均衡,避免所有的查询都集中在 一台数据库,造成数据库压力过大。mysql支持一主多从,即在写库的数据库发生变动时,会...



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米册

mysql+spring+mybatis实现数据库读写分离[代码配置]

mysql+spring+mybatis实现数据库读写分离[代码配置]



🚛 xtj332 2015年02月26日 16:50 🔘 38148

心 iybatis 读写分离



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₀基于Mybatis的dao层读写分离组件。 实现原理: 1.实现spring的AbstractRoutingDataSource抽象类, AbstractRoutingDataSou r∩e本身实现了...

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L技术分享]-Mybatis配置多个数据源(Java)



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经营性网站备案信息

首先,使用Mybatis配置多个数据源需要用到两个工具类: SqlSessionFactory MapperFactory /** * 根据mybatis.xml中配置的 不同的environ

mybatis 应用层读写分离



■ u010694931 2016年10月17日 16:11 単 253

1.配置两个数据源到动态数据源 id="dataSource" class="com.che.rw.datasource.DynamicDataSource"> name="defaul...

Spring和MyBatis实现数据的读写分离



● he90227 2016年04月26日 10:07 □ 10749

1.Spring实现数据库的读写分离 现在大型的电子商务系统,在数据库层面大都采用读写分离技术,就是一个Master数据库,多个SI ave数据库。Master库负责数据更新和实时数据查询, S...

spring + mybatis + mysql(主从) 配置多个resource(读写分离)

配置多个resource 实现mysql读写分离准备工作: 1.需要一个能够运行的spring + mybatis的项目 2.mysql 主从数据库着手改造原 来的项目 mysql 高可用...

■ Linpk0315 2016年05月26日 10:20 □ 2450

Spring+MyBatis实现数据库读写分离方案



推荐第四种 方案1 通过MvBatis配置文件创建读写分离两个DataSource,每个SqlSessionFactoryBean对象的mapperLocations 属性制定两个读写数据源的配...

spring MVC、mybatis配置读写分离



🥋 lixiucheng005 2013年12月18日 11:34 🕮 19340

1.环境: 3台数据库机器,一个master,二台slave,分别为slave1, slave2 2.要实现的目标: ①使数据写入到master ②读数据时,从slave1和...

使用mybatis +spring 插件实现读写分离



🚰 yixiaogang109 2015年12月26日 11:34 🚨 2108

最近的项目中在数据库优化的时候需要用到读写分离,由于代码已经写好了,所以最优的方式就是在代码端不做任何修改,由于m ybatis的灵活性,所以考虑用mybatis执行的时候通过插件的形式进行动态设置数据...

spring+mybatis实现数据库读写分离



🦷 CSDNzhangtao5 2016年10月28日 15:36 🚨 915

读写分离是为了减少数据库的负荷,当用户高并发访问时,绝大部分都是用户查询,少部分用户是写入到数据库的。这些我们把数 据库拆分成主从两个数据库,主数据库用高性能 服务器承载高并发的用户访问并加r...

Spring+MyBatis实现数据库读写分离方案



Color | Icathm | 2017年05月08日 20:06 | □ 1048

转: http://www.jianshu.com/p/2222257f96d3 推荐第四种: https://github.com/shawntime/shawn-rwdb 方案1 通过MyBat

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spring+mybatis利用interceptor(plugin)兑现数据库读写分离

使用spring的动态路由实现数据库负载均衡系统中存在的多台服务器是"地位相当"的,不过,同一时间他们都处于活动(Active)状 态、处于负载均衡等因素考虑、数据访问请求需要在这几台数据库服务器...



keda8997110 2013年11月19日 17:04 🕮 25021



coringboot+mybatis(读写分离)



zilzt1989 2017年06月12日 18:00
 □ 981

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🕠 ¬ringboot+mybatis 整合有两种方式 即注解和配置文件。此demo中使用的是配置文件方式,个人觉得此种方式更便于维护和阅 。此文中只列出目录结构以及每个类的作用,详细代码见githtt...

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spring+mybatis多数据源配置、读写分离



quying4875 2016年08月25日 16:23 単 1484

实现思路: 在spring中配置多个数据源, 然后在service层通过注解方式标明方法所要使用的数据源, 利用springAOP在service方 法执行前根据方法上的注解明确所要使用的数据源。如下图 ...

Spring和MyBatis实现数据的读写分离



xyw591238 2016年04月28日 14:09 Q 2343

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spring+spring mvc +mybatis+druid 实现数据库主从分离

本文是基于:spring+spring mvc +mybatis+druid为基础框架, 实现mysql数据库主从分离. 第一步:基于java annotation(注解)并通 过spring ao...



C zhouzhiwengang 2016年04月07日 18:32 🚇 7163

Spring MVC+jdbcTemplate+MySql实现读写分离



🧐 zbraccp 2016年12月29日 10:01 🕮 391

现如今,数据库读写分离已经不在是新鲜的话题,很多数据统计网站 、访问量高的网站都会使用这项技术。解决网站响应慢、服 务器承载压力过大的方案其实有很多,而读写分离只是其中一种实现方案。有的时候读写分离并不...