

# Distributed Relational Database Service

Best Practice

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## SQL Optimization

### Selection of Application Connection Pool

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It is highly recommended that you connect a task with a connection pool. In the Java environment, DRUID serves as an application connection pool (<https://github.com/alibaba/druid/>), and is the most recommended connection pool. The components in the DRUID connection pool are well-tested and stable standard components released by Alibaba Corporation. They also implement monitoring and other functions.

#### Spring standard configuration of DRUID

```
<bean id="dataSource" class="com.alibaba.druid.pool.DruidDataSource" init-method="init" destroy-  
method="close">  
  <property name="driverClassName" value="com.mysql.jdbc.Driver" />  
  <!--essential attribute url, user, password -->  
  <property name="url"  
value="jdbc:mysql://ip:port/db?autoReconnect=true&rewriteBatchedStatements=true&socketTimeout=3  
0000&connectTimeout=3000" />  
  <property name="username" value="root" />  
  <property name="password" value="123456" />  
  <!--configuration initialization size, minimum and maximum -->  
  <property name="maxActive" value="20" />  
  <property name="initialSize" value="3" />  
  <property name="minIdle" value="3" />  
  <!--maxWait timeout for waiting for obtaining of connection -->  
  <property name="maxWait" value="60000" />  
  
  <!--timeBetweenEvictionRunsMillis detection interval, idle connection to be closed for detection, with  
millisecond as unit -->
```

```
<property name="timeBetweenEvictionRunsMillis" value="60000" />
<!--minEvictableIdleTimeMillis minimum idle time of a connection in pool, with millisecond as unit-->
<property name="minEvictableIdleTimeMillis" value="300000" />
<property name="validationQuery" value="SELECT 'z'" />
<property name="testWhileIdle" value="true" />
<property name="testOnBorrow" value="false" />
<property name="testOnReturn" value="false" />
</bean>
```