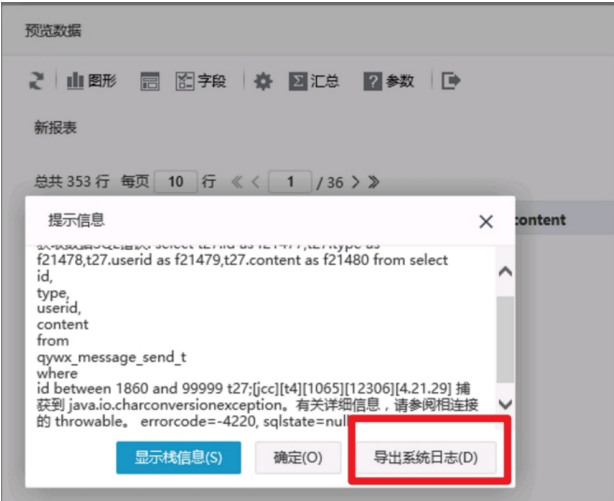


# DB2 “errorcode=-4220,sqlstate=null/ ERRORCODE=-4220, SQLSTATE=null/ERRORCODE=-4220, SQLSTATE=22021”

(本文档仅供参考)

## 问题说明

1、DB2数据源查询数据预览报 “....errorcode=-4220,sqlstate=null...”，如下截图：



2、DB2作为知识库，启动不成功，日志报 ccscid、编码或语言环境不受支持：“GBK”。 ERRORCODE=-4220, SQLSTATE=22021

或ccscid、编码或语言环境不受支持：“Cp1386”。 ERRORCODE=-4220, SQLSTATE=22021，如下两图：

```
7577 11-22 19:07:11 ERROR logExceptions(org.hibernate.util.JDBCExceptionReporter:78) - [jcc][10275][12043][3.64.133] ccscid、编码或语言环境不受支持：“GBK”。 ERRORCODE=-4220, SQLSTATE=22021
7578 11-22 19:07:11 ERROR activate(smartbi.framework:61) - could not execute query
7579 org.hibernate.exception.DataException: could not execute query
7580 at org.hibernate.exception.SQLStateConverter.convert(SQLStateConverter.java:77)
7581 at org.hibernate.exception.JDBCExceptionHelper.convert(JDBCExceptionHelper.java:43)
7582 at org.hibernate.loader.Loader.doList(Loader.java:2214)
7583 at org.hibernate.loader.Loader.listUsingQueryCache(Loader.java:2127)
7584 at org.hibernate.loader.Loader.list(Loader.java:2087)
7585 at org.hibernate.loader.hql.QueryLoader.list(QueryLoader.java:388)
7586 at org.hibernate.hql.ast.QueryTranslatorImpl.list(QueryTranslatorImpl.java:338)
7587 at org.hibernate.engine.query.HQLQueryPlan.performList(HQLQueryPlan.java:172)
7588 at org.hibernate.impl.SessionImpl.list(SessionImpl.java:1121)
7589 at org.hibernate.impl.QueryImpl.list(QueryImpl.java:79)
7590 at smartbi.repository.DAOModule.findByNameQuery(DAOModule.java:447)
7591 at smartbi.repository.AbstractDAO.findByNameQuery(AbstractDAO.java:140)
7592 at smartbi.ak.b(Smartbi:41)
7593 at smartbi.spreadsheetreport.SpreadsheetReportModule.afterStartup(Smartbi:437)
7594 at smartbi.framework.Framework.activate(Smartbi:57)
7595 at smartbi.extension.spring.SmartbiContextLoaderListener.contextInitialized(SmartbiContextLoaderListener.java:144)
7596 at org.apache.catalina.core.StandardContext.listenerStart(StandardContext.java:5128)
7597 at org.apache.catalina.core.StandardContext.startInternal(StandardContext.java:5653)
7598 at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:183)
7599 at org.apache.catalina.core.ContainerBase.addChildInternal(ContainerBase.java:1007)
7600 at org.apache.catalina.core.ContainerBase.addChild(ContainerBase.java:993)
7601 at org.apache.catalina.core.StandardHost.addChild(StandardHost.java:639)
7602 at org.apache.catalina.startup.HostConfig.deployDirectory(HostConfig.java:1296)
7603 at org.apache.catalina.startup.HostConfig$DeployDirectory.run(HostConfig.java:2037)
7604 at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:471)
7605 at java.util.concurrent.FutureTask.run(FutureTask.java:262)
7606 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145)
7607 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615)
7608 at java.lang.Thread.run(Thread.java:744)
7609 Caused by: com.ibm.db2.jcc.am.SqlDataException: [jcc][10275][12043][3.64.133] ccscid、编码或语言环境不受支持：“GBK”。 ERRORCODE=-4220, SQLSTATE=22021
7610 at com.ibm.db2.jcc.am.bda(bd.java:671)
7611 at com.ibm.db2.jcc.am.bda(bd.java:60)
7612 at com.ibm.db2.jcc.am.bda(bd.java:103)
7613 at com.ibm.db2.jcc.am.ke.<init>(ke.java:104)
7614 at com.ibm.db2.jcc.t4.c.b(c.java:1742)
7615 at com.ibm.db2.jcc.am.fc.a(fc.java:994)
7616 at com.ibm.db2.jcc.am.fc.s(fc.java:2014)
7617 at com.ibm.db2.jcc.am.ResultSet.getCharacterStream(ResultSet.java:1333)
7618 at com.ibm.db2.jcc.am.ResultSet.getCharacterStream(ResultSet.java:1728)
7619 at org.apache.commons.dbcp.DelegatingResultSet.getCharacterStream(DelegatingResultSet.java:337)
```

```
[22-1-17 15:08:42:648 CST] 0000006b SystemOut      O 01-17 15:08:42 ERROR activate(smartbi.framework.Framework:61) - 升级知识库失败
升级知识库失败
    at smartbi.repository.RepositoryUpgradeHelper.doUpgrade(RepositoryUpgradeHelper.java:387)
    at ... (...)
    at smartbi.repository.RepositoryUpgradeHelper$1$1.invoke(RepositoryUpgradeHelper.java:262)
Caused by: com.ibm.db2.jcc.am.SqlDataException: [jcc][t4][10275][10041][3.64.133] ccsid、编码或语言环境不受支持: "Cp1386"。  ERRORCODE=-4220, SQLSTATE=22
    at com.ibm.db2.jcc.am.bd.a(bd.java:671)
    at com.ibm.db2.jcc.am.bd.a(bd.java:60)
    at com.ibm.db2.jcc.am.bd.a(bd.java:85)
    at com.ibm.db2.jcc.am.Agent.getBytesToCharConverter(Agent.java:466)
    at com.ibm.db2.jcc.t4.bc.a(bc.java:2379)
    at com.ibm.db2.jcc.t4.ab.a(ab.java:3436)
    at com.ibm.db2.jcc.t4.ab.a(ab.java:1908)
    at com.ibm.db2.jcc.t4.ab.a(ab.java:1836)
    at com.ibm.db2.jcc.t4.ab.n(ab.java:771)
    at com.ibm.db2.jcc.t4.ab.j(ab.java:254)
    at com.ibm.db2.jcc.t4.ab.d(ab.java:55)
    at com.ibm.db2.jcc.t4.p.c(p.java:44)
    at com.ibm.db2.jcc.t4.qb.j(qb.java:147)
    at com.ibm.db2.jcc.am.io.ib(io.java:2165)
    at com.ibm.db2.jcc.am.io.a(io.java:3194)
    at com.ibm.db2.jcc.am.io.a(io.java:686)
    at com.ibm.db2.jcc.am.io.executeQuery(io.java:669)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:90)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:55)
    at java.lang.reflect.Method.invoke(Method.java:508)
```

## 解决方案

经查找相关说明，该问题通常是因为jdk升级到1.8及以上版本后预览数据会报错，经查看相关信息是需要增加JVM参数-Ddb2.jcc.charsetDecoderEncoder=3进行规避。

相关说明文档请参考：<https://www.ibm.com/support/pages/node/278157>、<https://zhidao.baidu.com/question/629286967774378724.html>

如何添加JVM参数请参考：[应用服务器JVM参数配置](#)

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