

Mckoi DBMS

as a

Socket Server

(2007.10.20)

Frank Ducrest

1) Change the *.conf* File

```
jdbc_server_port=9157           // default Mckoi server port
```

2) Create a Database Shell

```
java -jar ../mckoi1.0.3/mckoidb.jar  
      -conf ./BedrockU.conf -create "admin" "9999"
```

3) Start the Database as a Sever

```
java -jar ../mckoi1.0.3/mckoidb.jar  
      -conf ./BedrockU.conf
```

4) Now database can be populated!

Connecting to a Database Still Same ...

```
Connection connection;
```

```
try {  
    connection =  
        DriverManager.getConnection(url, admin, adminPw);  
} catch (SQLException e) {  
    System.out.println("cannot connect to database: " + e);  
    return;  
}
```

where ***url*** is a string giving the path to the
database

admin is a string giving the user

adminPw is a string giving the user's
password

<http://java.sun.com/j2se/1.5.0/docs/api/java/sql/DriverManager.html>

... Just the URL is Different

```
// URL for server accessed database
String url =
    "jdbc:mckoi://address:9157/BedrockU.conf?create=false";

// create root user info
String admin = "admin";
String adminPw = "9999";

// make a connection to the database
Connection connection;
try {
    connection =
        DriverManager.getConnection(url, admin, adminPw);
} catch (SQLException e) {
    System.out.println("cannot connect to database: " + e);
    return;
}
```

Example Makefile for Socket Access Database Management

```
# make file for creating and starting socket database
# and database client applications
create:
    /opt/jdk1.5.0/bin/java -jar ../mckoi1.0.3/mckoidb.jar
    -conf ./BedrockU.conf -create "admin" "9999"
start :
    /opt/jdk1.5.0/bin/java -jar ../mckoi1.0.3/mckoidb.jar
    -conf BedrockU.conf
cdb : MakeDB.java BedrockU.conf
    /opt/jdk1.5.0/bin/javac MakeDB.java
cadd : GetAddresses.java
    /opt/jdk1.5.0/bin/javac GetAddresses.java
csched: ChangeSched.java
    /opt/jdk1.5.0/bin/javac ChangeSched.java
cleandb:
    rm data/*
    rm log/*
cleanclass:
    rm *.class
```

Example Makefile for Socket Access Database Access

```
# make file for client file access to database
```

```
db :
```

```
    /opt/jdk1.5.0/bin/java -cp ./mckoidb.jar:. MakeDB
```

```
add:
```

```
    /opt/jdk1.5.0/bin/java -cp ./mckoidb.jar:. GetAddresses
```

```
sched:
```

```
    /opt/jdk1.5.0/bin/java -cp ./mckoidb.jar:. ChangeSched
```