

JDBC

```
Class.forName("oracle.jdbc.OracleDriver");
Class.forName("com.mysql.jdbc.Driver");
Class.forName("org.postgresql.Driver");
Class.forName("org.sqlite.JDBC");
Class.forName("org.apache.derby.jdbc.EmbeddedDriver");
```

```
con = DriverManager.getConnection(url, info);
    "jdbc:oracle:thin:@hostname:port:dbname"
    "jdbc:postgresql://hostname:port/dbname"
    user password
con = DriverManager.getConnection(url,
                                username,
                                password);
    "jdbc:mysql://hostname:port/dbname"
con = DriverManager.getConnection(url);
    "jdbc:sqlite:filename"
```

Java/JDBC

```
private String    dataMinDate = "0000-00-00";
private String    minDate = "0000-00-00";
private String    maxDate = "0000-00-00";
private Connection con = null;

private void init(String dbPath) {
    try {
        Class.forName("org.sqlite.JDBC");
    } catch (Exception e) {
        System.err.println("Cannot find the driver.");
        System.exit(1);
    }
    try {
        con = DriverManager.getConnection("jdbc:sqlite:"
                                         + dbPath);
        con.setAutoCommit(false);
    }
```

Java/JDBC

```

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                                         + dbPath);
        con.setAutoCommit(false);
    }
}

```

Java/JDBC

```

con = DriverManager.getConnection("jdbc:sqlite:"
                                + dbPath);

con.setAutoCommit(false);
// Should look for min/max dates
PreparedStatement stmt;
ResultSet rs;
stmt = con.prepareStatement(
    "select substr(min(UTC_date),1,10),"
    + " substr(max(UTC_date),1,10),"
    + "substr(datetime(max(UTC_date), '-7 days'),1,10)"
    + " from quakes");
rs = stmt.executeQuery();

```

Java/JDBC

```

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                                + dbPath);

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rs = stmt.executeQuery();

```

Java/JDBC

```

rs = stmt.executeQuery();
if (rs.next()) {
    dataMinDate = rs.getString(1);
    maxDate = rs.getString(2);
    minDate = rs.getString(3);
}
rs.close();
} catch (Exception e) {
    System.err.println(e.getMessage());
    System.exit(1);
}
}

```



```
$ export CLASSPATH=$CLASSPATH:sqlite-jdbc-x.x.x.jar
$ java MyApp
```

OR

```
$ java -cp sqlite-jdbc-x.x.x.jar MyApp
```

Connection parameters?

Interactively

Or

Properties
file

Useful Query for the Project

All quakes between two dates and of magnitude equal to or greater than a parameter in a given region

Useful Query for the Project

```
select id, substr(UTC_date,1,19),
       latitude,longitude,depth,
       magnitude,region
from quakes
where UTC_date >= ?
      and UTC_date < date(?, '+1 day')
      and magnitude >= ?
      and (region = ? or ? = 'WorldWide')
order by UTC_date desc
```

Useful Query for the Project

```
select id, substr(UTC_date,1,19),  
       latitude,longitude,depth,  
       magnitude,region  
from quakes  
where UTC_date >= ?  
      and UTC_date < date(?, '+1 day')  
      and magnitude >= ?  
      and (? = 'XX' -- Everything  
           or area_id in  
             (select id from plate_areas  
              where plate1=? or plate2=?))  
order by UTC_date desc
```