- Setup DB server(eg. Apache Derby)
- 1. Download from https://db.apache.org/derby/releases/release-10 15 2 0.cgi ,
- 2. Unzip to C:\Derby_10
- 3. Optional:

Windows:

set DERBY_HOME=C:\Derby_10

set PATH=%DERBY_HOME%\bin;%PATH%

MacOS:

In the Terminal, using any text editor to edit ~/.bash_profile

Appending following two lines

export DERBY_HOME=/Home/Derby_10

export PATH=\$DERBY_HOME\$/bin:\$PATH\$

\$source ~/.bash_profile

4. Startup DB server:

If you have set DERBY_HOME in step 3.

Windows:

java -jar %DERBY_HOME%\lib\derbyrun.jar server start

MacOS:

java -jar \$DERBY_HOME\$/lib/derbyrun.jar server start

If not, you can just run straightforward.

Windows:

java –jar C:\Derby_10\lib\derbyrun.jar server start

MacOS:

java –jar /Home/Derby_10/lib/derbyrun.jar server start

• Obtain your DB driver. A DB driver is provided by the DB vendor and often takes the form of a jar file that is added as an external library. For Apache derby DB, the JDBC driver can be found at C:\Derby_10\lib\derbyclient.jar or /home/Derby_10/lib/derbyclient.jar

• Run your JDBC client program in command line console, requires DB driver in classpath, you can use either following ways to run your JDBC program in console

Windows

java -cp %DERBY_HOME%\lib\derbyclient.jar;. DerbyJDBCDemo.class

MacOS

java -cp \$DERBY_HOME\$/lib/derbyclient.jar:. DerbyJDBCDemo.class

Or

In the Terminal, using any text editor to edit ~/.bash_profile

Appending following line

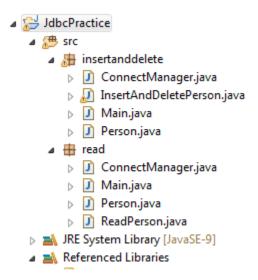
export CLASSPATH=.;\$DERBY_HOME\$/lib/derbyclient.jar

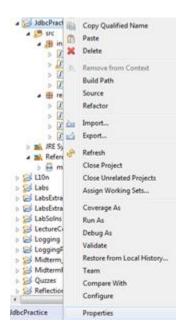
java DerbyJDBCDemo.class

\$source ~/.bash_profile

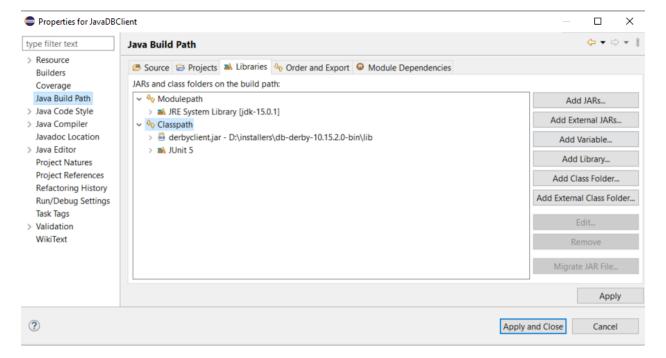
java DerbyJDBCDemo.class

If you only want to run your JDBC client program in eclipse, right – click on your project, select properties





Select Java Build Path, click on 'Libraries' tab, click on 'Add External JARS', select derbyclient.jar in The location where you extracted derby zip, select derbyclient.jar and click apply and close. Then you're good to go.



```
If you want to use derby ij tool to connect to Derby DB server,
Windows
       java -jar %DERBY_HOME%\lib\derbyrun.jar ij
or
       java -jar C:\Derby_10\lib\derbyrun.jar ij
MacOS
       java -jar $DERBY_HOME$/lib/derbyrun.jar ij
Or
       java -jar /Home/Derby_10/lib/derbyrun.jar ij
       Create and open a connection to the database using the client driver.
       CONNECT 'jdbc:derby://localhost:1527/testdb;create=true';
Then you can type DML and DDL SQLs in the ij console, then add ';' and then hit on 'Enter' to execute
the SQLs.
Sample:
CREATE TABLE Employees(
Id INT NOT NULL GENERATED ALWAYS AS IDENTITY,
Name VARCHAR(255),
Salary INT NOT NULL,
Location VARCHAR(255),
PRIMARY KEY (Id))
INSERT INTO Employees(Name, Salary, Location) VALUES
('Amit', 30000, 'Hyderabad'), ('Kalyan', 40000, 'Vishakhapatnam'),
('Navya', 50000, 'Delhi'), ('Archana', 15000, 'Mumbai'),
('Trupthi', 45000, 'Kochin'), ('Suchatra', 33000, 'Pune'),
('Rahul', 39000, 'Lucknow'),('Amit', 45000, 'Kochin')
```