ALL CLASS PATHS

**PATH** : **system recognize these s/ws**

C:\Program Files\Java\jdk1.6.0\_03\bin;F:\Oracle\app\oracle\product\10.2.0\server\BIN;.

**CLASSPATH**: **Java recognize these s/w 's**

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\jsp-api.jar;

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\servlet-api.jar;

F:\Oracle\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14.jar;.

**Some Rules**

-Add " ;. " at end of Last one

-Add NEW ones in Beggining

-in path Add <Java\_home> 1st then <Oracle\_home>

**JAVA\_HOME** : C:\Program Files\Java\jdk1.6.0\_03;.

**TEMP** : %USERPROFILE%\Local Settings\Temp

**TMP** : %USERPROFILE%\Local Settings\Temp

**"UNLOCK" SCOTT/ TIGER**

**Fonts Putting**

$JAVA\_HOME/jre/lib/font

Cntrl + C : exit from server

Serilaize emty method : C:\Program Files\Java\jdk1.6.0\_03\src\java\io

**along with o.s we get def. ODBC Driver** :

CONTROLPANEL -> PERFOMANCE&MAINTANCE ->ADMIN.TOOLS -> ODBC -> D'CLICK

**JDK has 1 built in jdbc driver** : C:\Program Files\Java\jdk1.6.0\_03\jre\lib\rt\sun\jdbc\odbc\JdbcOdbcDriver { java }.jdbc.odbc.JdbcOdbcDriver

**Procedure to Create DSN for M-soft Odbc for Oracle**

-----------------------------------------------------------------

START -> CNTRL PANEL -> Performance and Maintenance -> Administrative Tools -> Data Sources (ODBC) -> Add ->

select : microst ODBC for ORACLE -D'CLIK,

DataSource Name : oradsn

username : scott

[ok]

**Problem to Create DSN for M-soft Odbc for Oracle ??**

-----------------------------------------------------------------

Mycomuter -> Properties -> Advancd -> Envi. Variables -> Edit -> Var. Name : Path

Value : F:\oracle\app\oracle\product\10.2.0\server\bin;.

( ;. ) -------> Current Directory

( ;.. ) ------> Parent Directory

-----------------> if any error occurs change User/pwad

**NET BEANS - IDE**

--------------------------------

1.CREATE PROJECT

File -> new proj -> java - java Applcation -> next -> prj. name :TestProj -> [ \_/] create main class -> contnue -> FINSH

2.ADD JAVA CLASS TO PROJ

Ri8 Cl'k on Proj -> new : java class -> classname : DropTest -> FINISH

3.COMPLE

RI8 CLICK ON PROG -> properties -> run : mainclass

RUN : R8 ON PROJ --> RUN

3.SHORT CUTS

All short cuts Must Begn with '1st two letters'

all codes SHRTCUT + then TAB + [then SPACE]--->optional

help -> keybord Short cuts

4. Cntl + shift + i : import stmts

Vendor DB Library for Oracle [ .dll ]

F:\Oracle\app\oracle\product\10.2.0\server\BIN\oci.dll

Logical DB of Oracle SID

1.SQL> select \* from global\_name;

XE

2.con pan-> perfor&main-> admintools-> services-> Oracleservice-> OracleServiceXE

3.C:\oraclexe\app\oracle\product\10.2.0\server\NETWORK\ADMIN\tnsnames.ora ---> (SERVICE\_NAME = XE)

Type-4 JDBC DRIVER LOCTION

C:\oraclexe\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14\_g.jar put 1st in class path

and Dont touch any thing

XE --> comes by default

1521-> Also comes at installation tme, so no need to chane

N0 need to add 'Oracle Xe at Datasources'

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MS- ACCESS DATABASE

----------------------------------

Office->acess-> new -> flename: showroom -> location : [----] ->create[create showroom.accdbfle]

->r8 c'k on table1 -> dsign view ->tablename: product -> enter details

CNTRL + w -> yes ->D'clik on Product -> insert records -> SAVE

Create DSN for MS-ACESS

------------------------------------

START -> CNTRL PANEL -> Performance and Maintenance -> Administrative Tools -> Data Sources (ODBC) ->

Add -> microsot access driver(\*accdb) -> Dataouceaname : accdsn Path: showroom.accdb

**Approch1:**

SQL> select \*from global\_name;

GLOBAL\_NAME

--------------------------------------------------------------------------------

XE

**Approch2:**

F:\Oracle\app\oracle\product\10.2.0\server\NETWORK\ADMIN

all port nos:

C:\>netstat -a

Active Connections

Proto Local Address Foreign Address State

TCP i-5013035a42024:epmap 0.0.0.0:0 LISTENING

TCP i-5013035a42024:microsoft-ds 0.0.0.0:0 LISTENING

TCP i-5013035a42024:1033 0.0.0.0:0 LISTENING

TCP i-5013035a42024:1521 0.0.0.0:0 LISTENING

TCP i-5013035a42024:2869 0.0.0.0:0 LISTENING

TCP i-5013035a42024:8080 0.0.0.0:0 LISTENING

TCP i-5013035a42024:1031 0.0.0.0:0 LISTENING

TCP i-5013035a42024:1034 localhost:1521 ESTABLISHED

TCP i-5013035a42024:1036 0.0.0.0:0 LISTENING

TCP i-5013035a42024:1521 localhost:1034 ESTABLISHED

UDP i-5013035a42024:microsoft-ds \*:\*

UDP i-5013035a42024:isakmp \*:\*

UDP i-5013035a42024:1037 \*:\*

UDP i-5013035a42024:4500 \*:\*

UDP i-5013035a42024:ntp \*:\*

UDP i-5013035a42024:1038 \*:\*

UDP i-5013035a42024:1040 \*:\*

UDP i-5013035a42024:1900 \*:\*

C:\>

---------------------

**Oracle Driver Location**

F:\Oracle\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14\oracle\jdbc

scott/tiger unlock

----------------------------

SQL> alter user unlock scott identified by tiger[no --> ';']

SQL>connect scott

-----------------------------------------

Cntrl + B -----> browser in EDIT PLUS

Cache?? Opera : tools--->Advancd --> cache

ALL - >CLASSPATH = "

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\jsp-api.jar;

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\servlet-api.jar;

F:\Oracle\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14.jar;."

**Servlets**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Change PORT number

----------------------------------------

C:\Program Files\Apache Software Foundation\Tomcat 5.5\conf\server.xml

<Connector port="7080" maxHttpHeaderSize="8192">

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Servlet Contaner ------> CATALINA

servlet-api.jar

---------------------

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\servlet-api.jar ---> ni Copy to

C:\Program Files\Java\jdk1.6.0\_03\jre\lib\ext\

---OR-----

Environmt varble

name :CLASSPATH

value :C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\servlet-api.jar ; .

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MIME TYPES

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REG EDIT --------------> HKEY\_CLASSES\_ROOT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To Change USERNAME - PASSWORD

-----------------------------------------------

C:\Program Files\Apache Software Foundation\Tomcat 5.5\conf\tomcat-users

CHECK 2 LINES PRESENT OR NOT

<tomcat-users>

<role rolename="manager"/>

<user username="admin" password="" roles="admin,manager"/>

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Req,Res Objcect class names in CATALINA.jar

Req : C:\Program Files\Apache Software Foundation\Tomcat 5.5\server\lib\catalina\org\apache\catalina\connector\RequestFacade.class

Res : C:\Program Files\Apache Software Foundation\Tomcat 5.5\server\lib\catalina\org\apache\catalina\connector\ResponseFacade.class

main method of serv conaner

[C:\Program Files\Apache Software Foundation\Tomcat 5.5\bin\bootstrap.jar\org\apache\catalina\startup ]

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adding JDBC jar files to Our Servlet Prog

we must add odbc.jar to class path ...bcoz JDK reconizes for comipling

-CLASSPATH

-OR

-ext\folder lo copy chey

-----------------------------------------------------------------------

TO RECOGNIZE ServletCobtainer

APP-1

---------

WEB-INF\lib\odbc.jar

APP-2

----------

F:\Oracle\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14.jar;.

COPY THIS TO

C:\Program Files\Apache Software Foundation\Tomcat 5.5\common\lib\ojdbc14.jar;.

Start

-------------------------

Cmd line

Run : sqlplus

Enter user-name :scott

pwd:tiger

----> cl scr

**Type-1**

1.Used by any DataBase s/w

2.comes by defalut with Jre/JDK

3.Internally uses ODBC

4.It can not interct with DBase directly & it takes Support of ODBC

5.It uses Native code[C C++ code ] internally to interct with ODBC Drivers

**Type-2**

1.Used by Specific DataBase s/w

2.NOT by defalut with Jre/JDK

3.NOT using ODBC

4.It can Will interct with DBase Directly Without Support of ODBC

5.It uses Native code[C C++ code ] internally to interct with Vendor DB Lib [.dll]

**Type-3**

1.It is NOT a Driver...It'a PROTOCAL

2.It conatains RULES to intract with JDBC CONNECTION POOL

2.It will intercat with SERVER.

3.SERVER take care about JDBC/ODBC Drivers & Vendor DB(.dll)

4.It is NOT Directly interact with DATABASE, but it Intract Through SERVER

5.It Interact with SERVER to get Connection Pool

6. 3-Tyre Environment [ Java + SERVER + DATABASE]

Type-4

1.Used by Specific DataBase s/w

2.NOT by defalut with Jre/JDK

3.NOT using ODBC, Vendor DB [ .dll ]

4.It can Will DIRECTLY Interct with DBase

5.NOT uses Native code[C C++ code ] internally .Fully Developed in JAVA only

JDBC Driver Location : sun.jdbc.odbc.JdbcOdbcDriver

URL : jdbc:odbc:oradsn

**DRIVER MANAGER**

the DriverManager class will attempt to load the driver classes referenced in the "jdbc.drivers" system property.

This allows a user to customize the JDBC Drivers used by their applications

When the method 'getConnection()' is called, the DriverManager will attempt to locate a suitable driver from Drivers those loaded at initialization

and those loaded explicitly using the same classloader as the current application

registerDriver(Driver driver)

Registers the given driver with the DriverManager.

getConnection(String url)

Attempts to establish a connection to the given database URL

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

public interface Statement

=----------------------------------=

The object used for executing a static SQL statement and returning the results it produces.

ResultSet executeQuery(String sql)

Executes the given SQL statement, which returns a single ResultSet object.

int executeUpdate(String sql)

Executes the given SQL statement, which may be an INSERT, UPDATE, or DELETE statement or an SQL statement that returns nothing, such as an SQL DDL statement.

boolean execute(String sql)

Executes the given SQL statement, which may return multiple results

TRUE --> SELCET QRY

FALSE --> NON-SELECT QRY

ResultSet getResultSet()

Retrieves the current result as a ResultSet object.

int getUpdateCount()

Retrieves the current result as an update count; if the result is a ResultSet object or there are no more results, -1 is returned.

int[] executeBatch()

Submits a batch of commands to the database for execution and if all commands execute successfully, returns an array of update counts

Connection getConnection()

Retrieves the Connection object that produced this Statement object.

int getMaxRows()

Retrieves the maximum number of rows that a ResultSet object produced by this Statement object can contain.

ResultSet getResultSet()

Retrieves the current result as a ResultSet object.

-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

public interface ResultSet

---------------------------------------

A table of data representing a database result set, which is usually generated by executing a statement that queries the database

A ResultSet object maintains a cursor pointing to its current row of data. Initially the cursor is positioned before the first row.

The next method moves the cursor to the next row, and because it returns false when there are no more rows in the ResultSet object,

it can be used in a while loop to iterate through the result set.

a cursor that moves forward only. from the first row to the last row

boolean next()

Moves the cursor froward one row from its current position.

int getInt(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as an int in the Java programming language.

int getInt(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as an int in the Java programming language.

String getString(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as a String in the Java programming language.

String getString(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as a String in the Java programming language.

void afterLast()

Moves the cursor to the end of this ResultSet object, just after the last row.

void beforeFirst()

Moves the cursor to the front of this ResultSet object, just before the first row.

boolean first()

Moves the cursor to the first row in this ResultSet object.

Array getArray(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as an Array object in the Java programming language.

Array getArray(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as an Array object in the Java programming language.

Blob getBlob(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as a Blob object in the Java programming language.

Blob getBlob(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as a Blob object in the Java programming language.

Clob getClob(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as a Clob object in the Java programming language.

Clob getClob(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as a Clob object in the Java programming language.

long getLong(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as a long in the Java programming language.

long getLong(String columnLabel)

Retrieves the value of the designated column in the current row of this ResultSet object as a long in the Java programming language.

ResultSetMetaData getMetaData()

Retrieves the number, types and properties of this ResultSet object's columns.

int getRow()

Retrieves the current row number.

RowId getRowId(int columnIndex)

Retrieves the value of the designated column in the current row of this ResultSet object as a java.sql.RowId object in the Java programming language.

Statement getStatement()

Retrieves the Statement object that produced this ResultSet object.

boolean previous()

Moves the cursor to the previous row in this ResultSet object.

void refreshRow()

Refreshes the current row with its most recent value in the database.

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public final class Scanner

A Scanner breaks its input into tokens ,while token matches whitespace.

The resulting tokens may then be converted into values of different types using the various next methods.

Scanner sc = new Scanner(System.in)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PreparedStatement

---------------------------------------

PreparedStatement extends Statement

An object that represents a precompiled SQL statement.

A SQL statement is precompiled and stored in a PreparedStatement object.

This object can then be used to efficiently execute this statement multiple times

void setBlob(int parameterIndex, Blob x)

Sets the designated parameter to the given java.sql.Blob object.

void setBlob(int parameterIndex, InputStream inputStream)

Sets the designated parameter to a InputStream object.

void setBlob(int parameterIndex, InputStream inputStream, long length)

Sets the designated parameter to a InputStream object.

void setBinaryStream(int parameterIndex, InputStream x)

Sets the designated parameter to the given input stream.

void setBinaryStream(int parameterIndex, InputStream x, int length)

Sets the designated parameter to the given input stream, which will have the specified number of bytes.

void setBinaryStream(int parameterIndex, InputStream x, long length)

Sets the designated parameter to the given input stream, which will have the specified number of bytes.

void setClob(int parameterIndex, Clob x)

Sets the designated parameter to the given java.sql.Clob object.

void setClob(int parameterIndex, Reader reader)

Sets the designated parameter to a Reader object.

void setClob(int parameterIndex, Reader reader, long length)

Sets the designated parameter to a Reader object.

void setCharacterStream(int parameterIndex, Reader reader)

Sets the designated parameter to the given Reader object.

void setCharacterStream(int parameterIndex, Reader reader, int length)

Sets the designated parameter to the given Reader object, which is the given number of characters long.

void setCharacterStream(int parameterIndex, Reader reader, long length)

Sets the designated parameter to the given Reader object, which is the given number of characters long.

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incompatible Types : change Ruturn Type / Object Type cast Properly

//if any error occres change User/pwad

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Main-Class: CallableDemo

D:\study\BOOKS LIBRARY\PROGRAMMING\JAVA\SathyaJAVA\ADV Java\xper>jar cmf m.mf test.jar .