**createtable.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** createtable

{

**public** **static** **void** main (String [] args)

{

**try**

{

Class.*forName* ("oracle.jdbc.driver.OracleDriver");

//Class.forName ("Sun.jdbc.odbc.JdbcOdbcDriver");

System.*out*.println ("DRIVERS LOADED...");

Connection con=DriverManager.*getConnection* ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

//Connection con=DriverManager.getConnection("jdbc:odbc:oracle","system","lakshman");

System.*out*.println ("CONNECTION ESTABLISHED...");

Statement st=con.createStatement ();

**int** i=st.executeUpdate ("create table lakshman3(eno number (4), ename varchar2 (15),eadd varchar2 (15),sal varchar2 (15))");

System.*out*.println ("TABLE CREATED...");

con.close ();

}

**catch** (Exception e)

{

e.printStackTrace ();

}

}// main

}// CreateTable

**InsertingStatic.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**public** **class** InsertingStatic {

**public** **static** **void** main(String[] args) **throws** ClassNotFoundException, SQLException {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

Statement st= con.createStatement();

st.executeUpdate("insert into lakshman values(2,'lakshman','hyd',10000)");

con.close();

System.*out*.println("one record is inserted successfully");

}

}

**PSInsertTest.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**public** **class** PSInsertTest

{

**public** **static** **void** main(String rags[]) **throws** Exception

{

String drv="oracle.jdbc.driver.OracleDriver";

Class.*forName*(drv);

String url = "jdbc:oracle:thin:@//localhost:1521/xe";

String uname="system";

String pwd="lakshman";

Connection conn =DriverManager.*getConnection*(url,uname,pwd);

PreparedStatement pstmt=conn.prepareStatement("insert into lakshman values(3,'narayana','hyd',50000)");

//pstmt.setInt(1, Integer.parseInt(rags[0]));

//pstmt.setString(2, rags[1]);

//pstmt.setDouble(3, Double.valueOf(rags[2]).doubleValue());

//pstmt.setString(3, rags[2]);

//pstmt.setInt(4,Integer.parseInt(rags[3]));

**int** i=pstmt.executeUpdate();

System.*out*.println(i+" one record is inserted successfully");

pstmt.close();

conn.close();

}// main()

}// class

**multistaticinsertion.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** multistaticinsertion

{

**static** Connection *con*;

**static** PreparedStatement *ps*;

**public** **static** **void** main(String[] args)

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

*con*=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.*out*.println("connected to db");

String s="insert into lakshman3 values(?,?,?,?)";

*ps*=*con*.prepareStatement(s);

*ps*.setInt(1,100);

*ps*.setString(2,"lakshman");

*ps*.setString(3,"nuzvidu");

*ps*.setString(4,"10000");

System.*out*.println("first row inserted");

**int** i=*ps*.executeUpdate();

*ps*.setInt(1,200);

*ps*.setString(2,"Anu");

*ps*.setString(3,"ahmedabad");

*ps*.setString(4,"30000");

System.*out*.println("second row inserted");

i=*ps*.executeUpdate();

*ps*.setInt(1,300);

*ps*.setString(2,"rakesh");

*ps*.setString(3,"madras");

*ps*.setString(4,"8368");

System.*out*.println("third row inserted");

i=*ps*.executeUpdate();

*ps*.setInt(1,400);

*ps*.setString(2,"atal");

*ps*.setString(3,"bhopal");

*ps*.setString(4,"9846");

System.*out*.println("fourth row inserted");

i=*ps*.executeUpdate();

*ps*.close();

*con*.close();

}**catch**(Exception e)

{

e.printStackTrace();

}

}

}

**InsertDynamic.java:-**

import java.io.\*;

import java.sql.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class InsertDynamic {

public static void main(String[] args) throws ClassNotFoundException, SQLException, IOException

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

PreparedStatement ps=con.prepareStatement("insert into lakshman values(?,?,?,?)");

DataInputStream ds= new DataInputStream(System.in);

System.out.println("enter eno:");

String s1=ds.readLine();

int no=Integer.parseInt(s1);

System.out.println("enter ename:");

String ename=ds.readLine();

System.out.println("enter city");

String eadd=ds.readLine();

System.out.println("enter salary");

String s2=ds.readLine();

int sal=Integer.parseInt(s2);

ps.setInt(1,no);

ps.setString(2, ename);

ps.setString(3, eadd);

ps.setInt(4,sal);

ps.executeUpdate();

System.out.println("one record is inserted successfully");

}

}

**RetriveStatic.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**public** **class** RetriveStatic {

**public** **static** **void** main(String[] args) **throws** ClassNotFoundException, SQLException {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from lakshman");

**while**(rs.next())

{

System.*out*.println(rs.getInt(1));

System.*out*.println(rs.getString(2));

System.*out*.println(rs.getString(3));

System.*out*.println(rs.getInt(4));

}

}

}

create table dept(deptno number(3),dname varchar(20),loc varchar(20));

insert into dept values(10,'accounts','hyderabad');

insert into dept values(20,'sales','banglore');

insert into dept values(30,'development','chenni');

**SelectDataRun.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

class SelectDataRun

{

public static void main (String [] args)

{

try

{

Class.forName ("oracle.jdbc.driver.OracleDriver");

System.out.println ("DRIVERS LOADED...");

Connection con=DriverManager.getConnection ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println ("CONNECTION ESTABLISHED...");

PreparedStatement ps=con.prepareStatement ("select \* from dept where deptno= ?");

DataInputStream dis=new DataInputStream (System.in);

System.out.println ("ENTER DEPARTMENT NUMBER : ");

String s1=dis.readLine ();

int dno=Integer.parseInt (s1);

ps.setInt(1,dno);

ResultSet rs=ps.executeQuery ();

while (rs.next ())

{

System.out.println(rs.getString(1));

System.out.println(rs.getString(2));

System.out.println(rs.getString(3));

}

con.close ();

}

catch (Exception e)

{

e.printStackTrace ();

}

}// main

}// SelectDataRun

**MetaData.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** MetaData

{

**public** **static** **void** main (String [] args)

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection* ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.*out*.println ("CONNECTION ESTABLISHED...");

// UNIVERSAL DATABASE DETAILS

DatabaseMetaData dmd=con.getMetaData ();

System.*out*.println ("DATABASE NAME : "+dmd.getDatabaseProductName ());

System.*out*.println ("DATABASE VERSION : "+dmd.getDatabaseProductVersion ());

System.*out*.println ("NAME OF THE DRIVER : "+dmd.getDriverName ());

System.*out*.println ("VERSION OF THE DRIVER : "+dmd.getDriverVersion ());

System.*out*.println ("MAJOR VERSION OF DRIVER : "+dmd.getDriverMajorVersion ());

System.*out*.println ("MINOR VERSION OF DRIVER : "+dmd.getDriverMinorVersion ());

// USER DATABASE DETAILS

Statement st=con.createStatement ();

ResultSet rs=st.executeQuery ("select \* from dept");

ResultSetMetaData rsmd=rs.getMetaData ();

System.*out*.println ("NUMBER OF COLUMNS : "+rsmd.getColumnCount ());

**for** (**int** i=1; i<=rsmd.getColumnCount (); i++)

{

System.*out*.println ("NAME OF THE COLUMN : "+rsmd.getColumnName (i));

System.*out*.println ("TYPE OF THE COLUMN : "+rsmd.getColumnType (i));

}

con.close ();

}

**catch** (Exception e)

{

e.printStackTrace ();

}

}// main

}// MetaData

**Table.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** Table

{

**public** **static** **void** main (String [] args)

{

**try**

{

DriverManager.*registerDriver* (**new** oracle.jdbc.driver.OracleDriver());

System.*out*.println ("DRIVERS LOADED...");

Connection con=DriverManager.*getConnection* ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.*out*.println ("CONNECTION ESTABLISHED...");

Statement st=con.createStatement ();

ResultSet rs=st.executeQuery ("select \* from dept");

ResultSetMetaData rsmd=rs.getMetaData ();

System.*out*.println ("======================================");

// PRINTING COLUMN NAME

**for** (**int** i=1; i<=rsmd.getColumnCount (); i++)

{

System.*out*.print (rsmd.getColumnName (i)+" ");

}

System.*out*.println (" ");

System.*out*.println ("======================================");

// PRINTING THE DATA OF THE TABLE

**while** (rs.next ())

{

**for** (**int** j=1; j<=rsmd.getColumnCount (); j++)

{

System.*out*.print (rs.getString (j)+" ");

}

System.*out*.println (" ");

}

con.close ();

}

**catch** (SQLException sqle)

{

sqle.printStackTrace ();

}

}// main

};// Table

**ScrollResultSet.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** ScrollResultSet

{

**public** **static** **void** main (String [] args)

{

**try**

{

Class.*forName* ("oracle.jdbc.driver.OracleDriver");

System.*out*.println ("DRIVERS LOADED...");

Connection con=DriverManager.*getConnection* ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.*out*.println ("CONNECTION ESTABLISHED...");

Statement st=con.createStatement (ResultSet.*TYPE\_SCROLL\_INSENSITIVE*, ResultSet.

*CONCUR\_READ\_ONLY*);

ResultSet rs=st.executeQuery ("select \* from dept");

System.*out*.println ("RECORDS IN THE TABLE...");

**while** (rs.next ())

{

System.*out*.println (rs.getInt (1)+" "+rs.getString (2));

}

rs.first ();

System.*out*.println ("FIRST RECORD...");

System.*out*.println (rs.getInt (1)+" "+rs.getString (2));

rs.absolute (3);

System.*out*.println ("THIRD RECORD...");

System.*out*.println (rs.getInt (1)+" "+rs.getString (2));

rs.last ();

System.*out*.println ("LAST RECORD...");

System.*out*.println (rs.getInt (1)+" "+rs.getString (2));

rs.previous ();

rs.relative (-1);

System.*out*.println ("FIRST RECORD...");

System.*out*.println (rs.getInt (1)+" "+rs.getString (2));

con.close ();

}

**catch** (Exception e)

{

System.*out*.println (e);

}

}// main

}// ScrollResultSet

**TestDBOracle.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**public** **class** TestDBOracle {

**public** **static** **void** main(String[] args)

**throws** ClassNotFoundException, SQLException

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

String url = "jdbc:oracle:thin:@//localhost:1521/xe";

Connection conn =

DriverManager.*getConnection*(url,"system","lakshman");

conn.setAutoCommit(**false**);

Statement stmt = conn.createStatement();

ResultSet rset =

stmt.executeQuery("select BANNER from SYS.V\_$VERSION");

**while** (rset.next()) {

System.*out*.println (rset.getString(1));

}

stmt.close();

System.*out*.println ("Ok.");

}

}

create or replace procedure

proc1 (a in number, b number, n1 out number, n2 out number, n3 out number)

as

begin

n1:=a+b;

n2:=a\*b;

n3:=a-b;

end;

/

**Procedure.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Procedure {

public static void main(String[] args) throws ClassNotFoundException, SQLException, IOException {

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connection created");

DataInputStream ds=new DataInputStream(System.in);

System.out.println("enter no1:");

String s1=ds.readLine();

System.out.println("enter no2:");

String s2=ds.readLine();

int a=Integer.parseInt(s1);

int b=Integer.parseInt(s2);

CallableStatement cs=con.prepareCall("{call proc1(?,?,?,?,?)}");

cs.setInt(1,a);

cs.setInt(2,b);

cs.registerOutParameter(3,Types.INTEGER);

cs.registerOutParameter(4,Types.INTEGER);

cs.registerOutParameter(5, Types.INTEGER);

cs.execute();

int n1=cs.getInt(3);

int n2=cs.getInt(4);

int n3=cs.getInt(5);

System.out.println("addition:"+n1);

System.out.println("mul:"+n2);

System.out.println("sub:"+n3);

}catch (Exception e)

{

e.printStackTrace();

}

}

}

create or replace function Fun2

(a in number, b in number, n1 out number) return number

as

n2 number;

begin

n1:=a\*b;

n2:=a+b;

return (n2);

end;

/

**FunConcept.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class FunConcept {

public static void main(String[] args) {

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("database connected");

DataInputStream ds=new DataInputStream(System.in);

System.out.println("enter first number");

String s1=ds.readLine();

System.out.println("enter sencond number");

String s2=ds.readLine();

int n1=Integer.parseInt(s1);

int n2=Integer.parseInt(s2);

CallableStatement cs=con.prepareCall("{?=call Fun1(?,?,?)}");

cs.setInt(2, n1);

cs.setInt(3, n2);

cs.registerOutParameter(1,Types.INTEGER);

cs.registerOutParameter(4, Types.INTEGER);

cs.execute();

int res=cs.getInt(1);

int res1=cs.getInt(4);

System.out.println("addition result:"+res);

System.out.println("multification result:"+res1);

}

catch (Exception e) {

e.printStackTrace(); // TODO: handle exception

}

}

}

**batchprocessing.java:-**

**import** java.sql.\*;

/\*\*

\* **@author** Lakshman

\*

\*/

**class** batchprocessing

{

**public** **static** **void** main (String [] args) **throws** Exception

{

Class.*forName* ("oracle.jdbc.driver.OracleDriver");

System.*out*.println ("DRIVERS LOADED...");

Connection con=DriverManager.*getConnection* ("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.*out*.println ("CONNECTION ESTABLISHED...");

con.setAutoCommit (**false**);

Statement st=con.createStatement ();

st.addBatch ("insert into lakshman values (4,'laks','hhh',1000)");

st.addBatch ("delete from lakshman where eno=1");

st.addBatch ("update lakshman set ename='java' where eno=2");

**int** res []=st.executeBatch ();

**for** (**int** i=0; i<res.length; i++)

{

System.*out*.println ("NUMBER OF ROWS EFFECTED : "+res [i]);

}

con.commit ();

con.rollback ();

con.close ();

}// main

}// BatchProConcept

**Clobin1.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Clobin1

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="create table filedemo5(fno number(1),files clob)";

int i=st.executeUpdate(s);

String s1="insert into filedemo5 values(?,?)";

PreparedStatement ps=con.prepareStatement(s1);

ps.setInt(1,1);

File f=new File("D:/file2.txt");

FileReader fr=new FileReader(f);

ps.setCharacterStream(2,fr,(int)f.length());

i=ps.executeUpdate();

System.out.println("Record inserted successfully");

con.close();

}catch(Exception e)

{

e.printStackTrace();

}

}

}

**Clobin.java:-**

import java.sql.\*;

import java.io.\*;

import java.util.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Clobin

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="create table filedemo8(fno number(1),files clob)";

int i=st.executeUpdate(s);

String s1="insert into filedemo8 values(?,?)";

PreparedStatement ps=con.prepareStatement(s1);

Scanner sc=new Scanner(System.in);

System.out.println("Number of files to insert : ");

int x=sc.nextInt();

for(int j=1;j<=x;j++)

{

System.out.println("Enter File number : ");

int k=sc.nextInt();

ps.setInt(1,k);

System.out.println("Enter File location : ");

String s2=sc.next();

File f=new File(s2);

FileReader fr=new FileReader(f);

ps.setCharacterStream(2,fr,(int)f.length());

i=ps.executeUpdate();

}

System.out.println(i +"Record inserted successfully");

con.close();

}catch(Exception e)

{

e.printStackTrace();

}

}

}

**Clobout1.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Clobout1

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="select \* from filedemo4";

ResultSet rs=st.executeQuery(s);

while(rs.next())

{

System.out.println("Fno : "+rs.getInt(1));

Reader r=rs.getCharacterStream(2);

FileOutputStream fw=new FileOutputStream("emp"+1+".txt");

int i=r.read();

while(i!=-1)

{

System.out.println((char)i);

fw.write((char)i);

i=r.read();

}

}

con.close();

}catch(Exception e)

{

e.printStackTrace();

}

}

}

**Clobout.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Clobout

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="select \* from filedemo8";

ResultSet rs=st.executeQuery(s);

int j=1;

while(rs.next())

{

System.out.println("Fno : "+rs.getInt(1));

Reader r=rs.getCharacterStream(2);

FileOutputStream fw=new FileOutputStream("file"+j+".txt");

j++;

int i=r.read();

while(i!=-1)

{

fw.write(i);

i=r.read();

}

}

con.close();

}catch(Exception e)

{

e.printStackTrace();

}

}

}

**Blobin.java:-**

import java.sql.\*;

import java.io.\*;

import java.util.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Blobin

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="create table picture(pno number(3),photo blob)";

int i=st.executeUpdate(s);

String s1="insert into picture values(?,?)";

PreparedStatement ps=con.prepareStatement(s1);

Scanner sc=new Scanner(System.in);

for(int j=0;j<5;j++)

{

System.out.println("Enter picture number(5) : ");

int k=sc.nextInt();

ps.setInt(1,k);

System.out.println("Enter picture location : ");

String s2=sc.next();

File f=new File(s2);

FileInputStream fis=new FileInputStream(f);

ps.setBinaryStream(2,fis,(int)f.length());

i=ps.executeUpdate();

}

System.out.println(i +"Records inserted successfully");

con.close();

}catch(Exception e)

{

e.printStackTrace();

}

}

}

**Blobout.java:-**

import java.sql.\*;

import java.io.\*;

/\*\*

\* @author Lakshman

\*

\*/

public class Blobout

{

public static void main(String arg[])

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","lakshman");

System.out.println("connected to database");

Statement st=con.createStatement();

String s="select \* from picture";

ResultSet rs=st.executeQuery(s);

int j=1;

while(rs.next())

{

System.out.println("Eno : "+rs.getInt(1));

InputStream b=rs.getBinaryStream(2);

FileOutputStream fos=new FileOutputStream("asin"+j+".jpg");

j++;

int i=b.read();

while(i!=-1)

{

fos.write(i);

i=b.read();

}

}

con.close();

}catch(Exception e)

{

e.printStackTrace();

} } }