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

**import** java.io.\*;

**public** **class** Assignment5 {

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

String tableName = "dates";

String tableName2="shipments";

Connection conn = **null**;

Statement stmt = **null**;

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* determine if the JDBC driver exists and load it...

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\* establish a connection to the database...

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**try** {

System.***out***.print( "Connecting to ACADPRD0 database...\n\n" );

//String url = dataSource + dbName;

conn = DriverManager.*getConnection*("jdbc:oracle:thin:@acadoradbprd01.dpu.depaul.edu:1521:ACADPRD0", "DEMO", "DEMO");

/\*conn = dbms.equals("localAccess") ? DriverManager.getConnection(url)

: DriverManager.getConnection(url, userName, password );\*/

System.***out***.println( "Connected to database ACADPRD0..." );

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* create an object by which we will pass SQL stmts to the database...

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stmt = conn.createStatement();

}

**catch** (SQLException se) {

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

System.*exit*(1);

}

**try** {

String dropString = "DROP TABLE " + tableName;

stmt.executeUpdate(dropString);

}

**catch** (SQLException se) {/\*do nothing\*/} // table doesn't exist

**try** {

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* finally, display all the rows in the database...

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System.***out***.print( "Building new " + tableName + " table...\n\n" );

String createString =

"CREATE TABLE " + tableName +

" (SupplierNo VARCHAR(2)," +

" PartNo VARCHAR(2)," +

" ProjectNo VARCHAR(2)," +

" shipDate DATE," +

" arriveDate DATE)";

stmt.executeUpdate(createString);

System.***out***.print( "Alter Date datatype in Dates table...\n\n");

String alterString = "alter session set nls\_date\_format='MM/DD/YY'";

stmt.executeUpdate(alterString);

System.***out***.print( "Inserting rows in User table...\n\n" );

String insertString =

"INSERT INTO " + tableName + " VALUES ('S1','P1','J1','1/5/18','1/25/19')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S1','P1','J4','2/1/18','2/4/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S1','P3','J1','12/15/18','1/18/19')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S1','P3','J2','11/2/17','11/18/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S1','P3','J3','8/5/17','9/1/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S2','P3','J4','8/5/17','8/9/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S2','P3','J5','7/3/17','7/29/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S2','P3','J6','9/3/17','9/10/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S2','P3','J7','2/5/18','2/15/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S3','P5','J6','1/6/18','1/14/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S3','P3','J2','3/5/18','3/15/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S3','P4','J1','2/27/18','3/6/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S3','P6','J2','6/15/17','6/27/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S4','P6','J3','6/17/17','6/30/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S4','P2','J6','5/2/17','6/2/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S4','P5','J5','5/5/17','5/10/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S4','P5','J2','9/5/17','10/1/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P7','J4','10/2/17','10/23/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P1','J5','11/5/17','11/17/17')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P3','J7','12/12/17','1/4/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P4','J4','12/22/17','1/16/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P5','J4','5/7/18','6/1/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P6','J4','4/23/18','5/2/18')";

stmt.executeUpdate(insertString);

insertString =

"INSERT INTO " + tableName + " VALUES ('S5','P2','J4','4/20/18','5/2/18')";

stmt.executeUpdate(insertString);

System.***out***.print( "Display Dates table...\n\n");

ResultSet rset = stmt.executeQuery( " SELECT \* FROM " + tableName );

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

System.***out***.println( rset.getString("SupplierNo") + ": " +

rset.getString("PartNo")+" :"+rset.getString("ProjectNo")+" :"+rset.getString("shipdate")+" :"+rset.getString("arrivedate"));

String addString = " Alter TABLE " + tableName2 + " add (shipdate DATE, arriveDate DATE) ";

stmt.executeUpdate(addString);

String mergeString = " Merge INTO " + tableName2 +

" USING " + tableName+

" ON (shipments.supplierno=dates.supplierno AND shipments.partno=dates.partno AND shipments.projectno=dates.projectno) "

+ " WHEN MATCHED THEN "

+ " UPDATE SET shipments.shipdate=dates.shipdate, shipments.arrivedate=dates.arrivedate ";

stmt.executeUpdate(mergeString);

alterString = "Alter table SHIPMENTS DROP column quantity";

stmt.executeUpdate(alterString);

System.***out***.print( "Display SHIPMENTS TABLE...\n\n");

rset = stmt.executeQuery ("SELECT \* FROM "+ tableName2);

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

System.***out***.println( rset.getString("SupplierNo") + ": " +

rset.getString("PartNo")+" :"+rset.getString("ProjectNo")+" :"+rset.getString("shipdate")+" :"+rset.getString("arrivedate"));

rset.close();

stmt.close();

conn.close();

}

**catch** (SQLException se) {

System.***out***.println( "SQL ERROR: " + se );

}

} // end main

} // end class