# java database (jdbc)

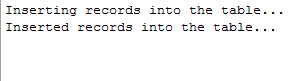
To create a database, insert records into it then retrieve data from it for evaluation.

# Screenshots:

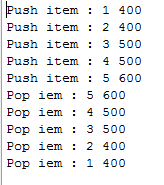
## Database table creation:



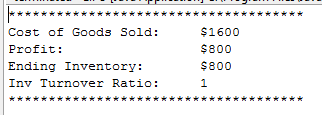
## Inserting records:



## LIFO output:



## Result:



# Code Snippet:

## jdbc.java

/\*\*

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\* Current Date: 11/07/2015

\*/

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.Statement;

**public** **class** JDBC {

**private** Connection connect = **null**;

**private** Statement statement = **null**;

**public** **void** createDataBase() **throws** Exception {

**try** {

// This will load the MySQL driver, each DB has its own driver

Class.*forName*("com.mysql.jdbc.Driver");

// Setup the connection with the DB

connect = DriverManager

.*getConnection*("jdbc:mysql://www.papademas.net/Inventory?"

+ "user=dbuser&password=db1");

//create table

statement = connect.createStatement();

String sql = "CREATE TABLE rmittInventory " +

"(id INTEGER not NULL AUTO\_INCREMENT, " +

" cost INTEGER, " +

" PRIMARY KEY ( id ))";

statement.executeUpdate(sql);

System.***out***.println("Created table in given database...");

//end create table

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**public** **void** insertIntoDataBase() **throws** Exception {

**try** {

// This will load the MySQL driver, each DB has its own driver

Class.*forName*("com.mysql.jdbc.Driver");

// Setup the connection with the DB

connect = DriverManager

.*getConnection*("jdbc:mysql://www.papademas.net/Inventory?"

+ "user=dbuser&password=db1");

System.***out***.println("Inserting records into the table...");

statement = connect.createStatement();

String sql = "INSERT INTO rmittInventory(cost) " +

"VALUES (600)";

statement.executeUpdate(sql);

// sql = "INSERT INTO rmittInventory(cost) " +

// "VALUES (500)";

// statement.executeUpdate(sql);

System.***out***.println("Inserted records into the table...");

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

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

JDBC dao = **new** JDBC();

//dao.createDataBase();

dao.insertIntoDataBase();

}

}

## lifo.java

/\*\*

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\*/

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.util.Arrays;

**import** com.mysql.jdbc.Connection;

**import** com.mysql.jdbc.Statement;

**public** **class** LIFO <T>

{

**private** **static** Connection *connect* = **null**;

**private** **static** Statement *statement* = **null**;

**private** **static** ResultSet *resultSet* = **null**;

**private** **static** **int** *count*;

**private** T[] data;

**public** LIFO()

{

data = (T[]) **new** Object[5];

*count* = 0;

}

**void** expandCapacity()

{

data = Arrays.*copyOf*(data, data.length \* 2);

}

**void** push(T e)

{

**if** (*count* == data.length)

expandCapacity();

data[*count*++] = e;

}

T pop() **throws** Exception

{

**if** (*count* <= 0)

{

**throw** **new** Exception("stack empty");

}

*count*--;

**return** data[*count*];

}

**boolean** isEmpty()

{

**return** *count* == 0;

}

**static** **int** size()

{

**return** *count*;

}

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

{

LIFO<Integer> s = **new** LIFO<Integer>();

LIFO<Integer> cogs = **new** LIFO<Integer>();

LIFO<Integer> endInv = **new** LIFO<Integer>();

**int** total = 0;

**try** {

// This will load the MySQL driver, each DB has its own driver

Class.*forName*("com.mysql.jdbc.Driver");

// Setup the connection with the DB

*connect* = (Connection) DriverManager

.*getConnection*("jdbc:mysql://www.papademas.net/Inventory?"

+ "user=dbuser&password=db1");

// Statements allow to issue SQL queries to the database

*statement* = (Statement) *connect*.createStatement();

// Result set gets the result of the SQL query

*resultSet* = *statement*

.executeQuery("select cost from rmittInventory");

// ResultSet is initially before the first data set

**while** (*resultSet*.next()) {

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\* column data may be retrieved via name e.g.

\* resultSet.getString("name"); or via the column number which

\* starts at 1 e.g. resultSet.getString(1);

\*/

**int** cost = *resultSet*.getInt(1); // retrieve cost

total+= cost;

s.push(cost); // push cost value onto stack

}

*count* = 5;

cogs.push(s.pop() + s.pop() + s.pop());

**int** goods\_sold = cogs.pop();

endInv.push(s.pop() + s.pop());

**int** endInv\_val = endInv.pop();

**int** sold\_cost = 800 \* 3;

**int** profit = sold\_cost - goods\_sold;

**int** invturn = goods\_sold / ((total + endInv\_val) / 2);

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

System.***out***.println("Cost of Goods Sold: \t$" + goods\_sold);

System.***out***.println("Profit: \t\t$" + profit);

System.***out***.println("Ending Inventory: \t$" + endInv\_val);

System.***out***.println("Inv Turnover Ratio: \t" + invturn);

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

}