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COMP - 3421
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Assignment 7
(1) jdbcFunction1. java:
(Description)
In this function, it allows the user to change the Employee ID in
table Orders. In a company, there is always a situation about firing
employees. So the company can use this function easy to use a new
employee id to instead of the fired employee id in table Orders. The
programming will ask the user the new Employee ID and the old Employee
ID. Then it will update the new Employee ID to table Orders
automatically.
(Java code)
import java.sql.*;
import java.io.*;
import java.util.Random ;
import java.util.Scanner;
public class jdbcFunction1 {
  public static void main(String[] args) {
        int old_emp_id, new_emp_id;
        Connection conn = null;
        Scanner user_input = new Scanner(System.in);
        try {
                 conn = DriverManager.getConnection("jdbc:mysgl://
localhost/ToySale?" +
                                  "user=lcocox&password=ll" );
        catch (SQLException ex ) {
          System.out.println("SQLException: " + ex.getMessage());
          System.out.println("SQLState: " + ex.getSQLState());
          System.out.println("VendorError: " + ex.getErrorCode());
        }
        Statement stmt = null ;
```

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try {
          System.out.println("What's the new employee's id?");
          new emp id = user input.nextInt();
          System.out.println("Which the old employee's id you want to
change in an order?");
          old_emp_id = user_input.nextInt();
          System.out.println("You entered the New Employee Id is " +
new_emp_id + ", and the Old Employee ID is " + old_emp_id + ".");
          String valueString;
          stmt = conn.createStatement();
          valueString = "update Orders set Emp_id = ";
          valueString += Integer.toString(new emp id);
          valueString += " where Emp_id = ";
          valueString += Integer.toString(old_emp_id);
          valueString += ";";
          System.out.println("About to execute: " + valueString);
          stmt.executeUpdate( valueString );
          stmt.close();
          conn.close();
        }
        catch (SQLException ex ) {
          System.out.println("SQLException: " + ex.getMessage());
          System.out.println("SQLState: " + ex.getSQLState());
          System.out.println("VendorError: " + ex.getErrorCode());
        }
}
(Script File)
Run jdbcFunction1.java in Terminal:
lcocoxs-MacBook-Air:Documents lcocox$ javac jdbcFunction1.java
lcocoxs-MacBook-Air:Documents lcocox$ java jdbcFunction1
Mon Mar 07 20:57:35 MST 2016 WARN: Establishing SSL connection without
server's identity verification is not recommended. According to MySQL
5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be
established by default if explicit option isn't set. For compliance
```

with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

What's the new employee's id?

99

Which the old employee's id you want to change in an order?

You entered the New Employee Id is 99, and the Old Employee ID is 88. About to execute: update Orders set Emp_id = 99 where Emp_id = 88;

Results in MySQL:

(Before I ran jdbcFunction1.java:)

mysql> select * from Orders where Emp_id = 88;

		L	L	L	L
0	rder_id	Cus_id	Emp_id	OrderDate	
 	428 861 1892 3189 4779	2292 169 603 1167 702	88 88 88 88	2013-11-08 2014-03-03 2014-04-07 2012-03-01 2012-11-15	-

5 rows in set (0.00 sec)

mysql> select * from Orders where Emp_id = 99;

L	L	L	L	ı
Order_id	Cus_id	Emp_id	OrderDate	
610 1906 2891 3450 4238	955 576 2315 3	99 99 99 99	2012-04-04 2013-09-27 2014-05-06 2013-12-14 2014-08-06	-
Ī			,	

5 rows in set (0.01 sec)

(After I ran jdbcFunction1.java:)

mysql> select * from Orders where Emp_id = 99;

			L
Order_id	Cus_id	Emp_id	OrderDate
428 610	2292 955	99 99	2013-11-08 2012-04-04
861	169	99	2014-03-03

```
1892 |
               603 |
                         99 | 2014-04-07 |
               576 |
                         99 | 2013-09-27 |
      1906 |
      2891 |
              2315
                         99 | 2014-05-06
      3189 I
              1167
                         99 | 2012-03-01
      3450 I
                         99 | 2013-12-14
                 3 I
              1927 İ
      4238 I
                         99 | 2014-08-06 |
      4779 |
               702 |
                         99 | 2012-11-15 |
10 rows in set (0.00 sec)
mysgl> select * from Orders where Emp id = 88;
Empty set (0.00 sec)
*************
(2) jdbcFunction2.java:
(Description)
In this function, it allows the user to insert new employee to table
Employee. In a company, there is a situation about hiring the new
employee. So the company can use this function easy to insert a new
employee data to table Employee. The programming will ask the user to
input the information by request and insert them automatically.
(code)
import java.sql.*;
import java.io.*;
import java.util.Random ;
import java.util.Scanner;
public class jdbcFunction2 {
  public static void main(String[] args) {
    int emp_id, age;
    String name, gender, hireDate;
    Connection conn = null;
    Scanner user input = new Scanner(System.in);
    try {
        conn = DriverManager.getConnection("jdbc:mysql://localhost/
ToySale?" +
                         "user=lcocox&password=ll" );
```

}

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catch (SQLException ex ) {
         System.out.println("SQLException: " + ex.getMessage());
         System.out.println("SQLState: " + ex.getSQLState());
        System.out.println("VendorError: " + ex.getErrorCode());
    }
    Statement stmt = null ;
    try {
      System.out.println("Enter (Emp_id, Name, Gender, Age, HireDate)
of an Employee you wish to enter: ");
      emp_id = user_input.nextInt();
      name = user_input.next();
      gender = user_input.next();
      age = user input.nextInt();
      hireDate = user_input.next();
      System.out.println( "You entered: " + emp_id + " " + name + " "
+ gender + " " + age + " " + hireDate);
      String valueString;
      stmt = conn.createStatement();
           valueString = "insert into Employee values(";
           valueString += "'" + Integer.toString(emp id) + "'";
      valueString += ", '" + name + "'";
valueString += ", '" + gender + "'";
           valueString += ", '" + Integer.toString(age) + "'";
valueString += ", '" + hireDate + "'";
           valueString += ");";
           System.out.println( "About to execute: " + valueString );
           stmt.executeUpdate( valueString );
         stmt.close();
         conn.close();
    }
    catch (SQLException ex ) {
        System.out.println("SQLException: " + ex.getMessage());
         System.out.println("SQLState: " + ex.getSQLState());
         System.out.println("VendorError: " + ex.getErrorCode());
    }
 }
}
```

(Script File)

Run jdbcFunction2.java in Terminal:

lcocoxs-MacBook-Air:Documents lcocox\$ javac jdbcFunction2.java lcocoxs-MacBook-Air:Documents lcocox\$ java jdbcFunction2
Mon Mar 07 22:34:55 MST 2016 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

Enter (Emp_id, Name, Gender, Age, HireDate) of an Employee you wish to enter:

1002 Vince1 M 25 2016-03-07

You entered: 1002 Vince1 M 25 2016-03-07

About to execute: insert into Employee values('1002', 'Vince1', 'M', '25', '2016-03-07');

Results in MySQL:

(Before I ran jdbcFunction2.java:)

mysql> select * from Employee where Emp_id > 990;

_	L	L	L	L	L
	Emp_id	Name	Gender	Age	HireDate
-			+	+ 48 46 41 23 47 39	
_	997 998 999 1000 1001	CH1151997 Christ998 Christ999 Christ1000 Gloria1		29 31 32 34 24	2010-09-11 2004-05-23 1994-07-17 2002-01-02 2016-03-11

11 rows in set (0.00 sec)

(After I ran jdbcFunction2.java:)

Emp_id	Name	Gender	Age	HireDate	
991	Christ991	+ F	48	2003-01-18	
j 992 j	Christ992	j F	j 46	2002-11-28	
j 993 j	Christ993	j M	j 41	1990-06-15	
j 994 j	Christ994	j M	23	1998-01-04	
995	Christ995	F	47	1999–11–18	
996	Christ996	j M	39	2006-05-03	
997	Christ997	F	29	2010-09-11	
998	Christ998	F	31	2004-05-23	
999	Christ999	j M	32	1994-07-17	
1000	Christ1000	į F	34	2002-01-02	
1001	Gloria1	F	24	2016-03-11	
1002	Vince1	j M	j 25	2016-03-07	
++					
12 rows in set (0.00 sec)					
