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import java.sql.*;
import oracle.jdbc.*;
import oracle.jdbc.pool.*;
import java.util.Scanner;

public class ProgAssign05 {
    static Connection connect;
    public static void main(String args[]){
        String dbUrl = "jdbc:oracle:thin:@basil.cs.uwp.edu:1521:xe";

        Scanner keyboard = new Scanner(System.in);

        System.out.print("Please enter the username: ");
        String username = keyboard.nextLine();

        System.out.print("Please enter the password: ");
        String password = keyboard.nextLine();

        try{
            DriverManager.registerDriver(new OracleDriver());
            OracleDataSource ds = new OracleDataSource();
            ds.setURL(dbUrl);
            connect = ds.getConnection(username, password);
        }catch(Exception e){
            System.err.println(e);
        }
        int choice = 0;
        do{
            System.out.println("1. View Employees");
            System.out.println("2. View Departments");
            System.out.println("3. View Employees in a Department");
            System.out.println("0. Exit");
            System.out.print("Please make a selection: ");
            choice = keyboard.nextInt();

            switch(choice){
                case 1: printQuery("select * from emp"); break;
                case 2: printQuery("select * from dept"); break;
                case 3: printWorks(); break;
            }
        }while(choice != 0);
    }

    public static void printQuery(String query){
```

```
System.out.println();
try{
    Statement statement = connect.createStatement();
    ResultSet results = statement.executeQuery(query);
    ResultSetMetaData resultsMeta = results.getMetaData();
    int col = resultsMeta.getColumnCount();
    while (results.next()) {
        for (int i = 1; i <= col; i++) {
            System.out.print(results.getObject(i) + "\t");
        }
        System.out.println();
    }
} catch(Exception e){
    System.err.println(e);
}
}
```

```
public static void printWorks(){
    System.out.println();
    Scanner keyboard = new Scanner(System.in);
    System.out.print("Please enter a Department ID: ");
    int key = keyboard.nextInt();
    printQuery("select * from emp e, dept d, works w " +
        "where e.eid = w.eid and w.did = d.did and " +
        "d.did = '" + key + "'");
}
}
```